# MAXIMIZING CONVERSION EFFICIENCY: EXPLORING THE IMPACT OF AI MARKETING ON SALES FUNNEL OPTIMIZATION

by

Praveen Madhu Holenarsipur, B.E. (Mechanical), MBA, MBL

## DISSERTATION

Presented to the Swiss School of Business and Management Geneva

In Partial Fulfillment

Of the Requirements

For the Degree

## DOCTOR OF BUSINESS ADMINISTRATION

## SWISS SCHOOL OF BUSINESS AND MANAGEMENT GENEVA

JULY, 2024

# MAXIMIZING CONVERSION EFFICIENCY: EXPLORING THE IMPACT OF AI MARKETING ON SALES FUNNEL OPTIMIZATION

by

Praveen Madhu Holenarsipur

Supervised by

Dr. Anna Provodnikova

APPROVED BY

Dissertation chair

Vasiliki Grougiou

**RECEIVED/APPROVED BY:** 

Admissions Director

## Dedication

To my beloved spouse, Sahana, whose unwavering love, encouragement and sacrifices made this journey possible. Your belief in me sustained my spirit through challenges in pursuing a doctoral program. I am forever grateful for your steadfast faith in me and my abilities.

To my dear children, Vivikth & Sharvari, even though you are 5 and 2 years old, your patience, understanding and endless joy filled my days with motivation and purpose. You are my greatest inspiration, and I dedicate this achievement to you, hoping it sets an example of perseverance and dedication in your lives and pushes you to achieve anything you put your heart and mind to.

To my mom, Varalakshmi, your boundless love, wisdom and lifelong encouragement have shaped me into the person I am today. After dad's passing, your sacrifices and guidance have been the foundation upon which I built my dreams. This thesis is a tribute to your constant encouragement and trust in my potential.

To my respected in-laws, Poornachandra Bhat & Aruna Hegde, for nudging me to fulfill this aspiration. I am deeply grateful to both of you for always standing by my side.

This thesis is dedicated to each of you with profound gratitude and love. Your belief in me has been the driving force behind this accomplishment. Thank you for being my pillars of strength and for enabling me to achieving my dreams.

#### Acknowledgements

I am deeply grateful to everyone who has contributed to the completion of this thesis.

First and foremost, I extend my heartfelt thanks to my mentor, Dr. Anna Provodnikova, whose expertise and guidance, and unwavering support has been instrumental throughout my doctoral journey. Your insights and encouragement have both shaped my research and my academic growth.

I am indebted to my thesis committee members, for their invaluable feedback, constructive criticism, and scholarly guidance.

To my friends and colleagues, you camaraderie, exchanges of thoughts and moral support have sustained me during the challenges of this research.

I extend my heartfelt and sincere appreciation to the research participants who generously shared their time, knowledge and experiences. Your contributions were essential to the foundations of this thesis.

To my professional contacts in the AI, marketing area, thank you for your insights, collaboration, and willingness to engage in meaningful discussions which has helped me shape the direction of my research.

Each of you has played a significant role in this academic endeavor, and I am deeply thankful for your support and encouragement.

### ABSTRACT

# MAXIMIZING CONVERSION EFFICIENCY: EXPLORING THE IMPACT OF AI MARKETING ON SALES FUNNEL OPTIMIZATION

Praveen Madhu Holenarsipur

2024

## Dissertation Chair: Dr. Anna Provodnikova

Artificial Intelligence (AI) is pivotal in digital advertising, enhancing conversion rates and corporate success. While AI's impact on client service, advertising, and logistics management is well-documented, there's growing interest in its nuanced effects on B2B sales, particularly in lead screening. AI tools excel in analyzing vast data sets to identify potential leads.

This study aims to explore AI Marketing's influence on Sales Funnel Optimization and Conversion Efficiency. It addresses key questions on how AI impacts these areas, along with associated benefits, challenges, and opportunities. By employing a mixedmethod approach—qualitative interviews and quantitative surveys—the research provides comprehensive insights into AI's role in enhancing sales funnel efficiency and optimizing marketing strategies.

Data collection uses purposive sampling. Qualitative data from interviews undergoes thematic analysis, while quantitative data from surveys contributes statistical insights. Descriptive statistics reveal positive perceptions of AI's role in smoothing sales funnels (mean values higher than 4.0 on a 5-point Likert scale), supported by reliable measures (Cronbach's Alpha = 0.641). Regression analyses highlight AI marketing's significant contribution (explaining 8.3% variance) in maximizing conversion efficiency.

These findings are crucial for marketers aiming to leverage AI for improved operational efficiency, precise customer targeting, and informed decision-making. However, the study acknowledges limitations, including sample size and demographic homogeneity, affecting generalizability. Future research should adopt longitudinal designs with larger, diverse samples to validate findings over time.

Further studies should also address ethical considerations in AI marketing and explore models optimizing collaboration between human marketers and AI tools. As technology evolves rapidly, ongoing research will be vital in understanding AI's evolving impact on marketing strategies.

# TABLE OF CONTENTS

CHAPTER I: INTRODUCTION10
1.1 Introduction
1.2 Research Problem
1.3 Purpose of the Study
1.4 Research Questions (Objectives of the Study)
1.5 Hypotheses of the Study – Derived from the Objectives
1.6 Significance of the Study
1.7 Organization of the Thesis
CHAPTER II: REVIEW OF LITERATURE
2.1 Introduction
<ul><li>2.1 Introduction</li></ul>
2.2 Key Themes for the Literature Review
<ul><li>2.2 Key Themes for the Literature Review</li></ul>
<ul> <li>2.2 Key Themes for the Literature Review</li></ul>
<ul> <li>2.2 Key Themes for the Literature Review</li></ul>
2.2 Key Themes for the Literature Review       86         2.3 Related Theories       103         2.4 Research Gap       112         2.5 Conclusion       113         CHAPTER III: METHODOLOGY       114

3.4 Research Design
3.5 Population and Sample121
3.6 Participant Selection
3.7 Instrumentation
3.8 Data Collection Procedures
3.9 Data Analysis 129
3.10 Research Design Limitations
3.11 Conclusion
CHAPTER IV: RESULTS134
4.1 Demographic Analysis
4.2 Descriptive Statistics
4.3 Reliability Statistics
4.4 Qualitative Analysis
CHAPTER V: DISCUSSION158
5.1 Integration of Quantitative and Qualitative Findings
5.2 Implications for Practice
5.3 Limitations of the Study162
5.4 Future Research Directions
CHAPTER VI: SUMMARY, IMPLICATIONS, AND RECOMMENDATIONS 167
6.1 Research Questions Summary167

6.2 Implications	173
6.3 Recommendations for Future Research	. 179
APPENDIX A: SURVEY COVER LETTER	187
APPENDIX C: INTERVIEW GUIDE	.190
APPENDIX D: QUESTIONNAIRE	.193
REFERENCES	.201

LIST	OF	TAB	LES
------	----	-----	-----

Table 1
Table 2
Table 3
Table 444
Table 5
Table 6
Table 767
Table 873
Table 977
Table 10137
Table 11140
Table 12141
Table 13142
Table 14143
Table 15144
Table 16145
Table 17147

Table 18	
Table 19	
Table 20	
Table 21	151
Table 22	152
Table 23	
Table 24	

# LIST OF FIGURES

Figure 1	
Figure 2	
Figure 3	
Figure 4	144
Figure 5	
Figure 6	

#### CHAPTER I:

## INTRODUCTION

### **1.1 Introduction**

AI has become one of the central drivers in digital marketing, as industries continue to experience the rapid growth and development of new strategies and ways to enhance sales funnels. The following part of the paper examines the evolutionary history of AI in marketing, as well as its influence on the funnel concept, its relation to digitalization, and the different aspects of conversion effectiveness (Novak et al., 2000, pp. 22-42). Thus, the background considered the automation of marketing tasks, the concept of predictive marketing, ethical issues, opportunities and threats, further developments, and examples of successful AI implementation in marketing to provide a solid foundation for understanding the role of AI in marketing (Malthouse E. C. et al., 2013, pp. 270-280)

## **1.1.1.** Artificial Intelligence in Marketing: A Brief History

This is the timeline into which the journey of AI in marketing has been fitted, showing the progressive evolution and enhanced complexity. At the onset, the use of AI in marketing was only confined to simple analytical functions and mechanical processes. However, with the advent of computational ability in recent years and the development of learning algorithms, AI has been able to advance rapidly.

The first decade of the 2000s saw AI being applied to simple things like SEO and elementary data analysis. These applications assisted the marketers in comprehending the consumer behaviors and the requirements for the content to be delivered online. The emergence of big data in the later years of 2000s also accelerated the progress of AI and enabled better segmentation of consumer data, and thus more targeted marketing (Chen. H et al., 2012, pp. 1165-1188).

The application of AI in marketing received a new boost when machine learning algorithms were created to handle large datasets within a short span. This leads to more complex use cases including programmatic advertising, which is the use of AI to purchase and place ads in real time. The emergence of social media also offered a valuable source of data for the AI algorithms that helped to create more efficient and effective advertisements.

Now AI is in the spotlight as a key enabler of marketing innovation and change, advancing in NLP, computer vision, and predictive analytics. The use of such technologies leads to more customized and immersive customer experiences, streamlines tasks related to marketing, and offers better customer insights (Novak et al., 2000, pp. 22-42).

## 1.1.2. Sales Funnel Optimization

It is a common marketing concept that defines a particular path or process that a prospective customer goes through before making a purchase. In the past, the process of optimizing the sales funnel required evaluating each step of the funnel to see where there were obstacles and where there was potential for enhancing the flow of customers.

The traditional sales funnel is typically divided into several stages: AIDA: Awareness, Interest, Consideration, Intention, Evaluation, and Purchase. Every step calls for different marketing techniques and approaches that will help shift the consumer into the buyer's zone. Some of the old school approaches to optimization incorporated A/B testing, customer feedback and sales data analysis which was done manually (Sia et al., 2010, pp. 491-512).

This made the sales funnel more efficient because AI offered better data and guidance in the process. AI can then use the data from different sources, for example website traffic, social media engagement, and customer reviews, to find patterns and trends. This means that the marketers can optimize each of the funnel stages much better.

For instance, AI can assist with finding the right content and media to target potential clients at the awareness level. During the consideration stage, AI can suggest relevant products and services as well as provide materials to further engage with the leads. In the purchase stage, AI can help with the right price strategies and can follow up with the clients automatically to boost the chances of a sale (Liu Yong et al., 2013, pp. 829-837).

#### **1.1.3.** AI and Digital Transformation

Digital transformation is the process of leveraging digital tools across the various business processes, which alters the core operations and value delivery model of an organization. It goes without saying that AI is an important element of digital transformation since it helps to improve the effectiveness of marketing efforts.

AI enabled digital marketing is all about the integration of AI technologies that can help in the delivery of better customer experience, improved business processes and innovation. For instance, chatbots and virtual assistants developed using the concept of artificial intelligence offer immediate customer support and recommendation, which boosts the level of satisfaction among customers.

AI also helps with better analysis of the data collected for better decision making since it provides understanding of the customers. This helps marketers to develop more specific and meaningful promotions, which enhance the overall efficiency of marketing strategies (Safavi et al., 2014, pp.117-130).

In addition, AI also enables the elimination of manual and mundane activities like data input, content generation, and campaign coordination. This not only enhances the efficiency of the marketing department but also reduces the workload of marketers, allowing them to perform higher-level and creative duties.

## **1.1.4.** Conversion Efficiency

Conversion efficiency is an important measure in marketing which ensures that the marketing efforts put in place to help transform the potential customers into actual buyers are effective. It involves making adjustments to certain elements of the marketing mix to achieve the highest conversion rate (Guha et al., 2018, pp. 193-214).

There are various measures of conversion rate that are used in determining the efficiency of conversion, these include conversion rate, cost per conversion, and customer lifetime value. The key marketing performance indicators offer information on the outcomes of marketing campaigns and potential adjustments (Luo et al., 2014, pp. 241-256).

AI improves conversion efficiency by a much higher level than conventional methods due to the increased accuracy of insights. For instance, AI can be used in the marketing domain to analyze customer behavior and choice patterns with a view of determining the best strategies and techniques that can be used in reaching the consumers. It makes it easier for marketers to design their campaigns in a more personalized way, thus making it easier for people to have a conversion.

AI also allows for the real-time, data-driven tweaking of marketing efforts, as the data is constantly collected and analyzed for effectiveness (Grewal et al., 2017, pp.1-6). This makes sure that the marketing campaigns are always running most efficiently so that the conversion rates are optimized.

#### **1.1.5.** Automation in Marketing

Marketing automation is one of the primary areas of application of AI within the marketing field since it helps to improve numerous tasks. There are automation tools that can handle virtually any process in the marketing mix, from data analysis and campaign management to customer segmentation and content customization.

Marketing automation refers to the use of AI technologies to perform routine and time-consuming practices like email marketing, social media, and ads. This in turn saves time and minimizes errors, so the marketer can get more involved in the more complex and creative aspects of the job (Grewal et al., 2017, pp.1-6).

The use of AI in automation can also offer customers a more relevant and localized experience. For instance, the AI algorithms are capable of evaluating the data of the

customers, and so it is possible to develop specific campaigns through emails and advertisements that will attract the customers (Kumar et al., 2016, pp.302-317).

Also, the use of automation tools through artificial intelligence can always work on analysis and enhance marketing in real time. This is to make sure that marketing campaigns are always at their best, and the money spent in the campaigns is recovered fully.

## 1.1.6. AI and Predictive Marketing

Predictive marketing is a sophisticated form of AI that leverages machine learning systems to analyze data and make predictions about the future. This in turn helps the marketers to arrive at better decisions and achieve the best results when formulating their marketing strategies (Berry et al., 2004).

Predictive marketing utilizes AI algorithms to evaluate past data to detect certain patterns and trends. This gives information on the customers' attitudes and perceptions, and thus, marketers can design more appropriate appeals.

For instance, using predictive analytics, it becomes possible to predict future sales and understand which marketing methods will be the most effective for various groups of customers. It enables marketers to target the appropriate audience and reduce wastage of resources hence developing enhanced campaigns (Kwahk et al., 2017, pp.759-791).

Another benefit could be the use of AI in predictive marketing which can deliver real-time data and suggestions, allowing marketers to fine-tune their strategies. This helps to ensure that marketing campaigns are always running at full efficiency, achieving the highest amount of conversion possible and delivering the greatest possible results (Kuehn et al., 2019, pp.420-432).

#### **1.1.7.** Ethical Issue and Data Privacy in AI Marketing

The integration of AI in marketing has various ethical questions and concerns with regard to privacy. It is crucial to properly regulate the usage of personal data that AI algorithms process nowadays to avoid negative consequences (Guha et al., 2018, pp.193-214).

The first of the ethical concerns arising from AI marketing is the question of openness. Thus, AI-awareness has to become a priority for businesses and business leaders, and they have to be clear about how they are using it and what data they are collecting. This involves offering customers simple and comprehensible information regarding data collection policies as well as giving customers control over their data.

Privacy is another topical concern in the use of AI in marketing. Therefore, it is crucial to safeguard personal data and also use the data responsibly once analyzed by AI algorithms. This involves having measures that enhance the security of data and being compliant with data privacy laws that exist globally including the GDPR (Hosanagar et al., 2020, pp.64-85).

Also, the issue of bias in AI systems must also be addressed as a very important factor. Machine learning algorithms in AI are capable of reinforcing the current biases present in the data, and as such, AI can be prejudiced. One of the concerns of AI is that

it may have bias; therefore, businesses need to periodically assess and evaluate their AI algorithms for fairness.

#### **1.1.8.** Barriers to the adoption of Artificial Intelligence

#### 1. Technological Complexity

AI technologies are by nature sophisticated and thus, when applied in organizations, their implementation and management demand expertise knowledge and skills. Some organizations may not possess the requisite skills and knowledge to fully leverage AI; a situation that is more prevalent with SMEs. The major disadvantage that is often apparent with the use of AI technology is the high costs associated with learning the technology. This complexity is further compounded by the fact that with the pace at which AI is being developed, one has to learn and unlearn all the time (Gopalakrishnan et al., 2020, pp.34-48).

## 2. High Implementation Costs

The cost of putting into practice such AI technologies could be quite significant. AI adoption entails huge expenses such as buying complex and expensive computers, procuring complex and costly software, and hiring experienced personnel. In many cases, these costs can be quite high, especially for SMEs, which is the main focus of this study. Also, the benefits of implementing AI are longer-term, and it becomes difficult for organizations to get the ROI on the investment that they are making on AI (Wilson et al., 2017, pp.435-438).

3. Data Quality and Availability

AI algorithms are data intensive and require accurate data in order to effectively learn and provide the desired outcomes. The advantage of AI-based information is that the accuracy and quality of the results depend on the data fed into the system. But, it is often encountered that the organizations have problems with data, for example the data is incomplete or inaccurate or even inconsistent (Gursoy et al., 2019, pp.157-169). Organizing, acquiring, and preparing large datasets to feed the AI systems in a way that will meet the needs of the systems is not an easy thing. Furthermore, there are issues of data privacy restrictions and lack of access to the correct data owing to the fact that some data is proprietary.

#### 4. Ethical and Privacy Concerns

Marketing using AI is not without its ethical and privacy issues, as it is considered a form of artificial intelligence. AI systems may collect and analyze vast amounts of personal data, which in turn may infringe the rights of privacy if not handled appropriately. There is a growing customer consciousness of how data is being processed and used and, therefore, more expectations from the consumers (Yang et al., 2021, pp.209-219). The issue of data protection and privacy is another consideration that renders the adoption of AI complicated due to the legal requirements such as the GDPR. This is because AI has ethical implications that include bias in algorithms used in the AI systems.

#### 5. Resistance to Change

One of the main challenges that many organizations face during the implementation of new technologies such as AI is organizational resistance to change.

Despite these benefits, there is bound to be resistance to change emanating from the employees, especially when they feel that their jobs are at risk or their working patterns are likely to be changed by the implementation of AI. Another reason why management may not support the development of AI may be because they do not know the value that AI brings to the organization and the rate of return it will bring. To eliminate this resistance, it is crucial to provide the employees with training, education, and proper communication about the benefits of using AI (Wilson et al., 2017, pp.14-16).

## 6. Integration with Existing Systems

AI can be easily integrated with existing marketing systems and processes, but it could be quite complex. The existing applications may not be compatible with the latest AI technologies, which may require major revamping or new development. It is therefore crucial to plan and implement integration efforts, to achieve the desired integration, without disruption of business. Also, organizations need to coordinate interconnectivity of the tools and platforms of AI to achieve a coherent and effective marketing system (Ailawadi et al., 2001, pp.71-89).

#### 7. Security Risks

It should be noted that the use of AI systems can create new threats that may require additional protection. There are concerns of threats from hackers and other actors who might want to steal data or compromise the algorithms. Security protocols should be put in place to safeguard data, and to also maintain the effectiveness and reliability of AI systems (Zhang et al., 2016, pp.53-75). This encompass technological measures as well as integrated policies and procedures to tackle security issues.

#### 8. Uncertainty about ROI

One of them is the lack of clarity regarding the ROI from AI projects and initiatives, which can be a major concern. In essence, the use of AI in marketing can bring about efficiency and effectiveness that can be significantly higher than the current levels of efficiency and effectiveness, yet the gains may not necessarily be easily measurable in the short term (Yao et al., 2021, pp.459-475). It can be challenging to assign tangible values to the application of AI within an organization and explain the value to diverse stakeholders in terms of KPIs. This is why, to overcome this barrier, it is necessary to work out the clear metrics and show how the AI can be useful and bring the tangible profit.

## 9. Regulatory and Legal Challenges

The legal framework for AI is relatively young, and new rules and guidelines are being enacted to regulate the impact of AI on ethics, privacy, and security. Some of these regulatory requirements can be quite challenging and sometimes may take a considerable amount of time to address. This is crucial because organizations need to be on the lookout for changes to the regulations and ensure they adhere to them to avoid being on the wrong side of the law. This means that there is a need to constantly assess and update the current practices of AI to conform to the regulations that are in place (Ailawadi et al., 2001, pp.71-89).

#### 1.1.9. Conclusion

These are some of the challenges that need to be addressed and this needs a solution that involves technology, capital, structure, and policy. Organizations need to learn how to create AI capacity, promote culture, and create effective data acquisition and protection systems. It is, therefore, important that organizations tackle these challenges ahead of time to fully harness the potential of AI in marketing and foster competitiveness (Tambe et al., 2019, pp.15-42).

## 1.1.10. Future Trends in AI Marketing

Marketing has been a beneficiary of AI, and this technology continues to grow at a fast pace. As the development of AI continues, there are several trends that may define the future of AI marketing (Aksoy et al., 2011, pp.355-371).

These are, for example, the use of AI for hyper-personalization, which has become one of the most important trends. The level of sophistication of AI algorithms will continue to grow to afford the ability to look at finer detail and deliver more customized and relevant service to customers. This shall improve the communication with customers and help boost the rates of conversion.

The next trend is real-time marketing assisted by artificial intelligence technologies. Promising technologies like artificial intelligence will allow marketers to process the data and fine-tune their activities in real-time, so that marketing initiatives are always running at their maximum efficiency (Kietzmann et al., 2018, pp.263-267).

AI will also continue to be instrumental in the creation of new marketing technologies like augmented reality [AR] and virtual reality [VR]. These technologies are not only new tools for interacting with customers and developing compelling experiences, but AI will play a major role in improving them.

Furthermore, AI is expected to advance the concept of predictive marketing to be able to achieve better and more useful results in terms of customer behaviors and trends. This will also be useful in helping the marketers to make better decisions and to be able to develop better marketing strategies (Tambe et al., 2019, pp.15-42).

## 1.1.11. Case Studies

Many businesses have adopted AI in their marketing approaches and therefore can be used to give insights on the opportunities and how to adopt the AI technology.

Netflix is a vast example that employs artificial intelligence algorithms to study the data of the users and offer appropriate content. This has improved users' interaction and loyalty to the service, thus boosting the company's performance and profitability.

Another real-world example is Amazon, which relies on AI for various marketing purposes, including targeted recommendation of products and automated price adjustments. Marketing automation through AI has helped Amazon to strategically market its products and services as well as give the consumer a more targeted and relevant shopping experience, making it a market leader in e-commerce (Aksoy et al., 2011, pp.355-371).

Another great example of an organization that has successfully incorporated AI in its marketing plan is Spotify. The music streaming service employs the use of Artificial Intelligence algorithms to review user data and offer suggestions. It has also improved the interaction and satisfaction of the users with the company's services hence increasing its growth and development.

These case studies shed light on the positive impacts of AI in marketing and give insight on the right approach to take when it comes to AI. At the core of it, utilizing AI technologies can increase the effectiveness of marketing strategies and overall performance (Bag et al., 2020, pp.77-91).

## 1.1.12. Conclusion

The progress and adoption of AI in marketing are a new paradigm of change in the execution of marketing techniques and the improvement of the marketing funnel of companies. It has come a long way from simple data analysis to the more complex applications that exist in the current market and has brought out a positive change in the efficiency of the marketing strategies. Recognizing those key themes discussed in this background would help businesses to harness AI technologies for enhancing the digital transformation, improving the conversion rate, and mitigating the impact of the barriers to AI adoption (Liu, 2020, pp.133-154). However, as with any such technology, AI is not stagnated and its prospects for marketing will only expand with time, opening up new ways to adapt to the marketing environment of the digital era.

## **1.2 Research Problem**

The need for this study arises from the following arguments: AI is one of the most influential innovations that has the capability to revolutionize marketing practices in the modern world with a special focus on the sales funnel and conversion efficiency (Jia et al., 2018, pp. 10-25). Artificial intelligence is a relatively new concept that has gained popularity in the recent past and is a tool that helps businesses to analyze large volumes of data, make decisions, and make changes based on some strategies that are most suitable for it and for individuals. This research aims to investigate the various aspects where AI is impacting the marketing field, which will provide a comprehensive analysis of the real-life implications of the technology (Moe et al., 2004, pp. 326-335).

Applications like machine learning, natural language processing, and data analytics are revolutionizing ways that businesses interact with customers. The current model of the sales funnel is still strongly associated with the linear and often highly bureaucratic approach to the process, while the new model is becoming much more flexible and driven by data that allows for real-time changes in reaction to the consumers' behavior and preferences. Not only is AI aiding in the automation of tedious and time-consuming tasks but it is also helping marketers gain a better understanding of customers and their behaviors, hence improving the effectiveness and efficacy of marketing processes (Rust et al., 2021, pp. 138-151).

This study is rather timely, especially when industries are experiencing fast digitization. In today's world of commerce, companies are in a constant search for ways to stay ahead of their competitors, which has created a need to incorporate new technologies that can act as a competitive weapon. Marketing with the help of AI can be regarded as a promising direction in achieving this goal, but it requires appropriate efforts, including data protection problems, ethical questions, and the necessity of investing in technology and qualified human resources (Lee, 2018).

It is imperative that marketers comprehend the magnitude of the changes that AI will bring to marketing productivity and the sales funnel to ensure that organizations ready to incorporate these technologies have a concrete framework for growth (Srinivasan et al., 2002). This research seeks to address this gap by offering a critical discussion and synthesis of the literature on the use of AI to inform marketing strategies while embracing both strengths and weaknesses. In so doing, it aims to provide businesses with the information that they need in order to understand the challenges and opportunities of AI and to optimize the value that it can offer.

## **1.3 Purpose of the Study**

The main research goal of the present work is to examine the impact of AI-based marketing initiatives on the funnel and conversion rates. Consequently, the study will seek to offer a practical analysis of the changes that have occurred within marketing as a result of the integration of AI and provide guidance to organizations on how they can benefit from these changes (Shankar, 2018, pp.vi-xi).

This study seeks to

1. Examine the Impact of AI on Sales Funnel Optimization

Find out how the various AI technologies can be adopted to optimize the different steps in the funnel.

Examine the ways in which AI can be used to diagnose issues with the funnel and how to increase the customer traffic from the awareness stage through to the purchase (Huang et al., 2018, pp.155-172).

2. Assess the Influence of AI on Conversion Efficiency

Learn how intelligent marketing can help to make the right approach to the potential customer and thereby increase the chances of turning him into a buyer.

Assess AI in terms of its ability to increase conversion rates by using data and making predictions in real-time (Balducci et al., 2018, pp.557-590).

3. Identify Benefits and Opportunities

Emphasize how AI improves the marketing discipline mentioning improvements in customer targeting, advertising, and decision making. Explain potential benefits of using AI technologies by businesses for creating a competitive advantage and diversification.

4. Address Challenges and Issues

Explain the issues that may be encountered when employing AI in marketing such as data privacy issues, ethical issues, and the high cost of implementing the solution.

Make suggestions on how businesses can overcome these challenges and utilize the technology in a beneficial way (Chandy et al., 2021, pp.1-9).

In pursuing these objectives, the study will be able to advance the knowledge of AI in the context of marketing and provide recommendations that can be helpful to companies that want to improve their marketing initiatives through the use of AI technologies. The results of this study will be useful for marketers, managers, and researchers who would like to explore the tendencies of artificial intelligence application in sales funnels and efficiency enhancement (Benlian et al., 2019, pp.1027-1058).

#### **1.4 Research Questions (Objectives of the Study)**

The goals of this study are as follows: They are intended to provide a structured approach to examining the multi-faceted nature of AI in marketing and its potential implications for enhancing the sales funnel and conversion rates. These objectives are designed to offer a broad perspective of the positives, prospects, concerns and threats related to AI implementation in marketing (Dai et al., 2004, pp.380-388). The specific objectives of the study are:

1. To Identify the Impact of AI Marketing on Sales Funnel Optimization

Research on how the AI technologies can eliminate the time, cost and effort on the different steps of the funnel from customer awareness to the point of purchase.

Examine how AI supports the process of improving the flow of customers through each stage of the funnel and increasing the efficiency of the company's work.

2. To Assess the Influence of AI Marketing on Maximizing Conversion Efficiency

Assess the potential of AI in increasing overall conversion rates due to the possibility of providing unique marketing experiences and analyzing the success of the marketing strategies.

Reflect on how AI can be used to enhance and fine-tune marketing activities in real-time so that marketing strategies are always relevant to the target audience (Chiang et al., 2017, pp. 1-9).

3. To Comprehend the Benefits and Opportunities Associated with the Implementation of AI Strategies on Marketing Efficiency

Describe the application of AI in marketing strategies and include the benefits of AI application, including better targeting of customers, prediction, and automation of content creation.

Examine how companies can leverage AI technologies and create competitive advantage across industries (Gensler et al., 2015, pp.112-141).

 To Comprehend the Challenges and Issues Associated with the Implementation of AI Strategies on Marketing Efficiency

Explain the challenges that may exist in the implementation of AI such as technical issues, costs, and specialized expertise.

Discuss potential ethical and privacy issues arising from AI in marketing, and recommend ways through which these concerns can be addressed to promote responsible AI adoption (Huang et al., 2018, pp.155-172).

#### **1.5 Hypotheses of the Study – Derived from the Objectives**

The hypotheses of this study are generated from the objectives and are aimed at assessing the effectiveness and implications of AI in marketing strategies on the efficiency of funnel and its conversion ratio. The characteristics of each hypothesis are that it is intended to give a clear structure for empirical research and examination to address all the concerns related to the impacts of AI in marketing (Paschen et al., 2019, pp. 1410 - 1419). Hypothesis 1: Opinion on the Effectiveness of AI Marketing in Sales Funnel Management Objective 1: In this context, the research aims at finding out the effect of adopting AI marketing on increasing the efficiency of the sales funnel.

Null Hypothesis (H0): There is no correlation between using AI Marketing and Sales Funnel Optimization.

Alternative Hypothesis (H1): It should therefore be clear that AI Marketing plays a critical role in the Sales Funnel Optimization process.

Rationale: This hypothesis seeks to establish if the use of AI technologies in this context can simplify and improve the different phases within the sales funnel. The sales funnel, which was once linear and operated manually, encompasses several stages, including customer awareness, evaluation, purchasing, and others. AI can improve these stages by analyzing the data, facilitating the process of certain stages, and defining the problems. This hypothesis will focus on the degree to which the use of AI can enhance the efficiency and effectiveness of each of the funnel stages to address the overall issue of low sales (Elia et al., 2020, pp. 249-258).

29

# **RO1:** To identify the impact of AI Marketing on Sales Funnel Optimization

1. What are the ways in which, according to you, the incorporation of AI may contribute in initiatives associated with creating awareness, interest and desire among potential consumers regarding the product or services among the potential consumers?

Table 1

Respondents	Responses	Initial Codes
Interviewee 1	Personalized Content AI algorithms can analyze user data to personalize content, such as ads, emails, or social media posts, based on individual preferences, behaviors, and demographics.	Personalized content Predictive analysis Chatbots and virtual assistants Recommendation systems Content creation
Interviewee 2	Augmented Reality (AR) and Virtual Reality (VR) AR and VR technologies can create immersive and interactive experiences for consumers, allowing them to engage with products or services in virtual environments. This innovative approach captures attention, increases engagement, and stimulates desire among potential consumers.	Sentiment analysis Virtual try on and visualization Dynamic pricing Voice search optimization Augmented Reality (AR) and Virtual Reality (VR)
Interviewee 3	Voice Search Optimization With the increasing popularity of voice- activated devices and virtual assistants, optimizing content for voice search using AI techniques becomes crucial. Businesses can	

	adapt their marketing strategies to align with
	natural language queries, making it easier for
	potential consumers to discover their
	products or services.
Interviewee 4	Dynamic Pricing
	AI algorithms can analyze market trends,
	demand patterns, and competitor pricing to
	optimize pricing strategies in real-time.
	Dynamic pricing ensures that prices remain
	competitive and attractive to consumers while
	maximizing profitability for businesses.
	internet protection of the second second
Interviewee 5	Virtual Try-On and Visualization
	For industries like fashion, cosmetics, or
	interior design, AI can facilitate virtual try-on
	experiences or visualization tools. These
	technologies allow consumers to virtually test
	products or visualize how they would look or
	fit, enhancing their confidence and desire to
	make a purchase.
	make a purchase.
Interviewee 6	Sentiment Analysis
	AI-powered sentiment analysis tools can
	monitor social media, reviews, and other
	online platforms to gauge consumer
	sentiment towards a brand or product. This
	information enables businesses to understand
	consumer perceptions and tailor their
	marketing strategies accordingly.

Interviewee 7	Content Creation AI can assist in content creation by generating personalized product descriptions, blog posts, social media updates, and other marketing materials. This not only saves time and resources but also ensures consistency and relevance in messaging.	
Interviewee 8	Recommendation Systems AI-driven recommendation systems analyze past behavior and preferences to suggest relevant products or services to consumers. By presenting personalized recommendations, businesses can influence consumer decisions and drive sales.	
Interviewee 9	Predictive Analytics By leveraging predictive analytics, AI can anticipate consumer behavior and preferences. This allows businesses to tailor their marketing strategies accordingly, ensuring that the right message is delivered to the right audience at the right time.	
Interviewee 10	Chatbots and Virtual Assistants AI-powered chatbots and virtual assistants can interact with potential consumers in real- time, providing them with information about products or services, answering questions, and guiding them through the purchasing	

process. This instant accessibility enhances
customer engagement and satisfaction.

Most of the participants concluded that the following strategies show how the use of AI can help in creating awareness, interest, and desire among the target consumers. The most frequently mentioned advantage of using AI was the ability to design advertisements, emails, or social media posts based on users' data. Recommendation systems that are built using AI were also cited time over time to appeal to consumers by presenting what the consumers would seem interested in depending on their past behavior and responses thus affecting their choices and purchases. Another acknowledged response was established by dynamic pricing that was designed to regulate and adjust the prices in real time depending on the current market conditions and the tendency to provide a competitive and appealing price level. Visualization and fitting applications were highlighted as important since they sought to make the consumers more confident and eager to make orders, especially for products such as clothing and beauty products. On the other hand, the minority response included Voice Search Optimization because it engages marketing techniques according to the conversational question, AR and VR for developing a whole-new experience the customer might have, sentiment analysis to study the customer viewpoint and lastly AI creating the personalized marketing content. Also, the use of chatbots and virtual assistants was noted for real-time conversation and consultation with potential buyers, thus improving their experience. In general, the areas covered included, AI in personalized marketing, dynamic pricing, recommendation service, and virtual experience where most of the respondents seem to have acknowledged the benefits. Though there were other areas such as, voice search optimization and sentiment analysis few of the respondents seemed to see the benefits.

2. How is the incorporation of AI in marketing going to impact the process of segmentation and personalization of product or service related marketing initiatives?

Respondents	Responses	Initial Codes
Interviewee 1	Advanced Segmentation	Advanced segmentation
	AI enables more granular segmentation by	Real time segmentation
	analyzing large volumes of data to identify	Predictive segmentation
	distinct consumer segments based on	Hyper personalization
	demographics, behaviors, preferences, and	Contextual marketing
	other relevant factors. This allows marketers	Cross Channel integration
	to target specific audience segments with	Automated optimization
	tailored messages and offerings, increasing	
	the relevance and effectiveness of their	
	marketing efforts.	
Interviewee 2	Real-time Segmentation	
	AI algorithms can continuously analyze	
	incoming data streams to dynamically	
	segment audiences in real-time based on	
	changing behaviors and preferences. This	
	agile approach allows marketers to adapt their	
	targeting strategies on-the-fly, ensuring that	
	messages resonate with the most relevant	
	audience segments at any given moment.	

Interviewee 3	Predictive Segmentation AI-powered predictive analytics can forecast future consumer behavior and preferences based on historical data and current trends. Marketers can use these insights to proactively segment audiences and anticipate their needs, enabling targeted marketing campaigns that resonate with consumers at each stage of the buyer's journey.	
Interviewee 4	Real-time Segmentation AI algorithms can continuously analyze incoming data streams to dynamically segment audiences in real-time based on changing behaviors and preferences. This agile approach allows marketers to adapt their targeting strategies on-the-fly, ensuring that messages resonate with the most relevant audience segments at any given moment.	
Interviewee 5	Hyper-personalization AI enables hyper-personalization by creating individualized experiences for each consumer based on their unique preferences, behaviors, and interactions with the brand. Through techniques such as recommendation engines, dynamic content generation, and personalized messaging, marketers can deliver tailored experiences that resonate with consumers on	

	a personal level, fostering stronger connections and driving higher engagement and conversion rates.
Interviewee 6	Predictive Segmentation AI-powered predictive analytics can forecast future consumer behavior and preferences based on historical data and current trends. Marketers can use these insights to proactively segment audiences and anticipate their needs, enabling targeted marketing campaigns that resonate with consumers at each stage of the buyer's journey.
Interviewee 7	Contextual Marketing AI-powered contextual analysis can interpret the context in which consumers interact with marketing messages, such as their location, device, time of day, and browsing behavior. Marketers can leverage this contextual information to deliver highly relevant and timely messages that meet consumers' needs and preferences in the moment, increasing the effectiveness of their marketing efforts.
Interviewee 8	Cross-channel Integration AI facilitates cross-channel integration by unifying data from multiple touchpoints, such as websites, social media, email, mobile apps, and offline interactions. Marketers can

	leverage AI-driven analytics platforms to
	gain a holistic view of each consumer's
	journey across channels, enabling seamless
	and consistent experiences that drive
	engagement and loyalty.
	engagement and royarty.
Interviewee 9	Automated Optimization
	AI automates the optimization of marketing
	campaigns by continuously analyzing
	performance data and adjusting targeting,
	messaging, and creative elements in real-time
	to maximize effectiveness. This iterative
	process enables marketers to achieve better
	results with less manual effort, freeing up
	time to focus on strategy and creativity.
Interviewee 10	Hyper-personalization
	Through techniques such as recommendation
	engines, dynamic content generation, and
	personalized messaging, marketers can
	deliver tailored experiences that resonate with
	consumers on a personal level, fostering
	stronger connections and driving higher
	engagement and conversion rates.

The incorporation of artificial intelligence in marketing is set to influence controllably the segmentation and ensuing marketing of product or service-related marketing campaigns. Most participants stressed that AI enhances superior segmentation since still, it processes immense data to arrive at the different groups of consumers in

terms of demographic characteristics and their behaviors and preferences. Such mixed segmentation lets marketers address all the needed audiences with diversified messages, thus raising the probability of affecting them. Several participants also have insisted on real-time segmentation pointing out the fact that with the help of AI algorithms, the targeted audiences could be segmented depending on the change of behavior and inclinations. Another approach named predictive segmentation was also discussed; it implies that AI's tools help determine the consumers' future tendencies in their preferences and needs and, therefore, allow starting the audience segmentation and subsequent campaign actions earlier. Hyper-personalization, mentioned by several participants, refers to designing unique experiences for each consumer by using recommendation algorithms as well as offering messages and content that can create a better connection and increase people's attention. Other response includes contextual marketing where AI understands the context of the consumer and presents messages at the right time, an integration of channels where all data from different touch points are consistently applied to the consumer, and auto-optimization of marketing where campaigns are changed as per the AI's recommendation for the best results.

3. How is the implementation of AI in marketing going to effect the decision making process in the marketing phase, regarding the ways of promoting the product or services?

Respondents	Responses	Initial Codes
Interviewee 1	Problem Identification	Generating Alternatives

r						
	AI algorithms analyze data to pinpoint issues	Information Gathering				
	accurately by uncovering patterns not readily	Evaluating Options				
	visible to humans. This frames decisions and	Implementation				
	defines measurable goals.	Review				
	Implementation of AI in marketing and the	Customer journey				
	decision-making by managers critically	optimization				
	impacts growth, partnerships, and overall	Competitive Intelligence				
	business performance. It shapes the trajectory	Problem Identification				
	and longevity of an organization.					
Interviewee 2	Information Gathering					
	AI rapidly processes volumes of data to					
	derive actionable insights using ML, NLP,					
	and data mining. This builds comprehensive					
	situational understanding.					
	According to PwC, artificial intelligence					
	could grow the global economy by \$15.7					
	trillion and provide a 26% boost in GDP for					
	local economies by 2030.					
Interviewee 3	Generating Alternatives					
	AI systems create numerous effective					
	solutions by running simulations using					
	historical data, predictive analytics, and					
	external factors like weather or social media					
	sentiment.					
	With the rise of artificial intelligence (AI),					
	there has been a revolutionary shift in					
	decision-making approaches, fundamentally					

	reshaping traditional paradigms. AI assists
	organizations in tackling the intricacies of today's world. Its ability to analyze vast
	amounts of data, detect patterns, and produce
	practical insights has revolutionized decision-
	making across various sectors.
Interviewee 4	Evaluating Options
	ML models assess possible strategies and
	decisions by examining historical outcomes
	in various contexts. This identifies risks and
	predicts results.
	As per Precedence Research, the global
	decision intelligence market reached a
	valuation of USD 10.55 billion in 2022.
	Projections indicate that by 2032, this market
	is poised to surge to approximately USD
	45.15 billion, marking a remarkable growth
	trajectory at a CAGR of 15.7% throughout
	the forecast period from 2023 to 2032.
Interviewee 5	Selecting Alternatives
	While humans make the final call, AI
	provides data-backed recommendations to
	inform choices.
	Artificial Intelligence or AI refers to a
	machine's ability to replicate human learning
	and its cognitive functions. AI aims at prompt
	problem-solving and decision-making

Interviewee 6	processes without human errors. In technological terms, they refer those machines to as intelligent bots. Implementation AI gives strategic input for detailed action plans, optimises resource allocation, and suggests execution steps.
Interviewee 7	Problem Identification AI can handle anomaly detection, data crunching, complex analysis, optimized decision making, and spotting trends. The final decisions are then either completely automated or taken over by the human end. Take a look at the model of AI decision making
Interviewee 8	Review AI continuously monitors decisions through real-time data analysis, tracking performance and suggesting adjustments.
Interviewee 9	Competitive Intelligence AI tools can monitor competitor activities, analyze market dynamics, and identify emerging trends, providing marketers with valuable competitive intelligence. By staying informed about competitors' promotional tactics, pricing strategies, and product

	innovations, marketers can adapt their own strategies to maintain a competitive edge in the market.			to m									-				
Interviewee 10	Customer Journey Optimization AI analyzes the entire customer journey across multiple touch points and channels to identify opportunities for optimization and enhancement. By understanding how customers interact with the brand at each stage of the journey, marketers can identify bottlenecks, friction points, and areas for improvement, allowing them to tailor promotional strategies to better meet customer needs and expectations.	the e to rtun H erac Durn Tricti al stra	es t iple port nt. inter jou , fri nt, 1 s	zes t ltiple pport ent. inte ne jo s, fr ent, al	s the portu- nt. frid nt, s	the e too ctunii B erac ourn ricti al stra	e e touc uniti By act rney ction allo	ent uch ities y t w ey, on low tegi	ntir h po es f u with y, m i po win gies	re poir for und th 1 marl poin ng es	cu nts r o der the tket nts, tl to	an opti rsta ters , a hen	on id im an ora s an an b	ch niza din and car d a t t ette	ani atic ng l a are to	ne on t de t	els to and how each entify s for tailor

The various application of artificial intelligence in the marketing decision-making process influences the strategies of advertising of products or services available in the market. The majority of the respondents identified that AI helps in defining the problem by understanding and interpreting data to reveal trends and problems, setting decision structures, and defining objectives. Several of the respondents pointed out that information gathering is another area where AI is superior, due to its ability to quickly analyze large amounts of data to get insights; as well as create a situation awareness picture. Solutions were also provided through simulations and this was corroborated through the existence of several good solutions that were provided using AI. Another domain where AI is useful is where determining possibilities is concerned since the evaluation of choices of ways of performing a task is performed by machine learning models by analyzing previous records in an endeavor to reveal obstacles on the way and possibilities of success. A few participants pointed out that while choices are recommended with the help of AI based on data analysis, those choices are made by people. AI in strategies is applied to offer proposals for action plans, resource management, and steps to be taken for action plan implementation. Also, AI has an active role in the evaluation of decisions as it analyzes performance in the real-time segment and provides alterations. Other matters touched on included competitive intelligence whereby AI tools observed the activities of competitors and market trends and conveyed this information to the marketers so that they could adjust their strategies. Finally, AI participates in customer journey optimization by synthesizing all of the clients' interactions and determining how their definite cycle of touchpoints can be boosted and promotional tactics improved to fulfill clients' needs.

Hypothesis 2: A case of how AI Marketing helps in the optimization of Conversion Efficiency

Objective 2: To evaluate the contribution of AI Marketing towards enhancing conversion efficiency

Null Hypothesis (H0): AI Marketing does not have any significant impact on the Conversion Efficiency (Jarek et al., 2019, pp. 46-55).

Alternative Hypothesis (H1): AI Marketing has a huge impact on Conversion Efficiency. Rationale: This hypothesis focuses on the role of AI in increasing conversion rates with the help of marketing. Marketing effectiveness can be described as the effectiveness of marketing strategies in changing prospects to customers. AI can amplify this process through personalization, real-time marketing, and even the use of predictive analytics (Davenport et al., 2018, pp. 108-116). Thus, by using this hypothesis, the study will look at whether or not AI can enhance the conversion rates, thus enhancing the impact of marketing campaigns.

## **RO2:** To assess the influence of AI Marketing on maximizing Conversion Efficiency

4. In your opinion, what are the potential impacts of incorporating AI on conversion and retention of customers for the service providers or producers?

Table 4	Table 4	l
---------	---------	---

Respondents	Responses	Initial Codes			
Interviewee 1	Enhanced Customer Experience	Improved customer			
	AI-driven chatbots, virtual assistants, and	engagement			
	recommendation systems provide immediate	Enhanced customer			
	assistance and support to customers,	experience			
	addressing their inquiries and resolving issues	Predictive customer insights			
	in real-time. This seamless and personalized	Optimized marketing			
	experience enhances customer satisfaction	campaigns			
	and loyalty, increasing the likelihood of	Personalized product			
	repeat purchases and referrals.	recommendations			
T / C		Dynamic pricing strategies			
Interviewee 2	AI's versatility extends to its capability to	Streamlined customer support			
	predict customer churn — the probability of a customer discontinuing business with a	Proactive risk management			
	company.				
	By processing customer data such as				

	purchase history, account activity, and social	
	media engagement, AI can identify customers at risk of churning. Proactive risk	
	management	
	Example: Bank use AI to recognize inactive	
	account, which can provide attractive offer to	
	prevent customer from closing the account.	
	This approach can increase retention and	
	reinforce long term relationships.	
	Tennoice long term relationships.	
Interviewee 3	AI can help foster customer loyalty through	
	personalized experiences and superior	
	customer service, leading to repeat business	
	and better profitability	
	Ex: Netflix: Based on user view history it	
	recommends movies and shows keeping them	
	engaged boosting retention.	
Interviewee 4	Dynamic Pricing Strategies	
	AI algorithms analyze market dynamics,	
	demand patterns, and competitor pricing to	
	optimize pricing strategies in real-time. By	
	dynamically adjusting prices based on factors	
	such as demand elasticity and customer	
	segmentation, businesses can maximize	
	revenue while remaining competitive,	
	increasing conversion rates and customer	
	retention.	
	AI in finance identifies trends in financial	
	l	4

Interviewee 5	<ul> <li>data to guide strategic investment choices. It evaluates complex risk parameters to enable informed decisions for portfolio protection. It delivers real-time market insights for trade execution.</li> <li>AI in marketing segments audiences and tailors campaigns to improve relevance. It tracks customer engagement to refine content</li> </ul>
	for higher conversion. It also guides optimal ad spend allocation across platforms.
Interviewee 6	AI aids in decision about prioritizing leads, identifying up-sell or cross sell opportunities and optimizing customer service interactions by providing insights into sales opportunities and service enhancements.
Interviewee 7	AI offers insights into customer touch points and pain points in customer experience, guiding decisions to improve interactions and engagement at various stages by mapping and optimizing customer journey.
Interviewee 8	Optimized Marketing Campaigns AI enables data-driven marketing strategies that optimize targeting, messaging, and creative elements to maximize conversion rates. By analyzing customer data and predicting the effectiveness of different

	marketing tactics, businesses can allocate resources more efficiently, focusing on the channels and approaches that yield the highest returns and driving increased conversions.
Interviewee 9	Personalized Product Recommendations AI-powered recommendation engines analyze customer purchase history, browsing behavior, and demographic information to deliver personalized product recommendations. By suggesting relevant products or services to customers based on their preferences, AI increases the likelihood of cross-selling and upselling, driving incremental revenue and enhancing customer satisfaction.
Interviewee 10	Predictive Customer Insights AI-powered analytics platforms generate actionable insights into customer behavior, preferences, and sentiment. By predicting customer needs and identifying churn risks, businesses can proactively intervene with targeted retention strategies, such as personalized offers, loyalty programs, or re- engagement campaigns, to prevent customer attrition and maximize retention rates.

The use of AI also plays a serious role in changing the percentage of converting customers and retaining them for oneself or the service provider or producer. Most of the respondents mentioned that AI improves customer satisfaction via chatbots, virtual personal assistants, and recommendation engines, delivering timely help and recommendations that increase satisfaction and, as a result, encourage repeat purchases and recommendations. AI was also chosen to stress on customer analysis in which an organization recommends its products based on the findings collected about the customer to drive more sales of related products to increase its cross-selling and upselling revenue. AI capability was another repeated theme about advanced marketing campaigns since it permits data-driven tactics for enhancing the conversion rates through proper management of resources and their availability across channels and approaches. Another recurring topic was predictive customer analytics; AI was described as providing businesses with the ability to proactively predict customers' needs and churn risk factors, enabling the appropriate development of effective customer retention strategies. On the other hand, a few respondents offered a bit of a description of dynamic pricing strategies where AI looks at the market and demand and changes the prices as it looks for the highest revenue and keeps itself competitive. Others spoke of AI and its ability to spot potentially risky customer cases, and then act: to retain such customers; and about mapping clients' experiences, both silo by silo, and optimally. In any case, AI offers great versatility and predictive patterns that imply enormous benefits in increasing simultaneously the conversion and retention rates.

5. With implementation of AI Marketing and optimizing campaigns based on real-time insights, would there be an impact on Conversion Efficiency? If yes, kindly explain

Respondents	Responses	Initial Codes
Interviewee 1	According to a study by Boston Consulting	Targeted audience
	Group, companies that integrate AI into their	segmentation
	marketing strategies see an average increase	Personalized content and
	of 20% in their conversion rates (Ch.	messaging
	McIntyre et al., The Tide Has Turned, 2023).	Real time optimization
	Furthermore, a report by McKinsey Global	Predictive analytics
	Institute suggests that AI can potentially	Improved customer
	deliver additional global economic activity of	experience
	around \$13 trillion by 2030, which translates	Machine learning
	to about 1.2% additional GDP growth per	Search and Hyper
	year (J. Bughin et al., Notes from the AI	personalization
	frontier. Modeling the impact of AI on the	Lead scoring and
	world economy, 2018).	prioritization
	Conversion Rate Optimization (CRO) is the	Personalized user experience
	process of optimizing a website or app to	(PUE)
	maximize the proportion of visitors who take	Increased ROI
	the desired actions, such as making a	Enhanced customer insights
	purchase or filling out a form. The benefits of	Conversion Rate Optimization
	CRO are numerous, including increased	(CRO)
	customer lifetime value, reduced advertising	
	costs, and improved customer retention.	
	Machine Learning, a subset of AI, is	
	instrumental in delivering a personalized	

experience. AI-based recommender engines use machine learning to study user behavior (past and in real-time) to show users products they are most likely to be interested in. AI allows you to deliver dynamic content that changes based on the user's interests thereby affecting conversion efficiency.Interviewee 2In the B2B landscape, 93% of the buying cycle starts with an online search (the user research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert users.	r		
(past and in real-time) to show users products they are most likely to be interested in. AI allows you to deliver dynamic content that changes based on the user's interests thereby affecting conversion efficiency.Interviewee 2In the B2B landscape, 93% of the buying cycle starts with an online search (the user research engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		experience. AI-based recommender engines	
Interviewe 2In the B2B landscape, 93% of the buying cycle starts with an online search (the user research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		use machine learning to study user behavior	
allows you to deliver dynamic content that changes based on the user's interests thereby affecting conversion efficiency.Interviewee 2In the B2B landscape, 93% of the buying cycle starts with an online search (the user research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customersSEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		(past and in real-time) to show users products	
changes based on the user's interests thereby affecting conversion efficiency.Interviewee 2In the B2B landscape, 93% of the buying cycle starts with an online search (the user research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		they are most likely to be interested in. AI	
affecting conversion efficiency.Interviewee 2In the B2B landscape, 93% of the buying cycle starts with an online search (the user research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customersSEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		allows you to deliver dynamic content that	
Interviewee 2 In the B2B landscape, 93% of the buying cycle starts with an online search (the user research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		changes based on the user's interests thereby	
cycle starts with an online search (the user research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		affecting conversion efficiency.	
research phase). Thus, winning over the search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert	nterviewee 2	In the B2B landscape, 93% of the buying	
search engine results is crucial for top-of-the- funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		cycle starts with an online search (the user	
funnel marketing. CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		research phase). Thus, winning over the	
CRO and SEO share a common goal: enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		search engine results is crucial for top-of-the-	
enhancing user experience and website performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		funnel marketing.	
performance. CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		CRO and SEO share a common goal:	
CRO focuses on converting visitors into customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		enhancing user experience and website	
customers SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		performance.	
SEO concentrates on driving organic traffic from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		CRO focuses on converting visitors into	
from search engine results pages. By enhancing user experiences and content relevance, they attract, retain, and convert		customers	
enhancing user experiences and content relevance, they attract, retain, and convert		SEO concentrates on driving organic traffic	
relevance, they attract, retain, and convert		from search engine results pages. By	
		enhancing user experiences and content	
users.		relevance, they attract, retain, and convert	
		users.	
Both CRO and SEO rely heavily on		Both CRO and SEO rely heavily on	
understanding user behavior.		understanding user behavior.	
Targeted User Acquisition: In combination			
with tools like Google Analytics, SEO efforts		•	
bring in users who have already expressed		<b>.</b>	
interest in relevant topics or products. The			

	potential customers who end up navigating
	on-page features are a prime starting point for
	increasing conversions.
	Streamlined Buyer Journey: CRO tools like a
	buyer intent software enhance the user
	journey and guide visitors through the
	conversion funnel with tailored content.
	Enhanced Keyword Strategy: With the help
	of AI, you can identify high-converting
	keywords and trends. The general advice is to
	aim for long-tail keywords with high
	conversion potential.
Internierree 2	Al norman dista accurb & homen
Interviewee 3	AI-powered site search & hyper-
	personalization
	The faster your customers find what they
	need, the faster you make a sale. It's a popular
	UX principle to ensure the number of steps
	from customer intent to checkout should be
	about 3 steps and not more than 5. Reducing
	the number of steps in the purchase journey is
	also a matter of good CX.
	An AI-powered search uses machine learning
	to dynamically show the user the most
	relevant results based not only on their search
	terms but also on other factors like past
	interactions, location, the time of the day, etc.
	It is also capable of making product
	recommendations in case of unavailability or

	for a cross/up sell, which helps your
	customers find exactly what they need and
	helps you Increase Conversion Rates.
Interviewee 4	Lead scoring and prioritization for focused
	sales processes
	When the first point of contact, whether it's a
	chatbot, an email or a social media bot, is AI-
	powered, it is capable of analyzing the
	responses, the intent, even the emotions to
	prequalify the lead.
	By analyzing customer interactions and
	engagement on different platforms, AI is able
	to predict the customer's preferred mode of
	communication. With this information, the
	sales team can reach out to leads on channels
	they are most likely to respond positively to.
	Auto scaling is a cloud computing method
	where the computational resources or number
	of active servers (or both) are dynamically
	adjusted based on the load. An AI-powered
	autoscaler enables the app to run optimally
	while also ensuring redundant resources
	aren't assigned in two ways –
	Monitoring demand and adjusting resources
	in real-time (automated reactive allocation)
	Preparing resources for use by predicting
	demand using machine learning (automated
	proactive allocation).

Interviewee 5	AI Conversion Rate Optimization by efficient	
	sales funnel creation	
	By analyzing lead data, AI tools identify the	
	most effective sales funnel, facilitating	
	smoother transitions from consideration to	
	conversion.	
	At the outset of the funnel, AI conversion	
	optimization tools leverage data analysis and	
	predictive modeling to identify potential	
	customers with precision. Armed with this	
	insight, businesses can craft targeted	
	marketing campaigns that resonate with the	
	unique needs and preferences of these	
	prospects, laying a solid foundation for	
	engagement.	
	As leads progress through the funnel, AI	
	continues to play a crucial role in	
	streamlining communication and nurturing	
	relationships. Automated follow-up	
	communications, infused with	
	personalization based on individual behavior	
	and interests, keep leads engaged and primed	
	for conversion. This level of tailored	
	interaction not only enhances engagement but	
	also significantly boosts the likelihood of	
	successful conversions.	
	AI tools offer invaluable insights into the	
	sales process itself, enabling businesses to	
	pinpoint inefficiencies and areas ripe for	

	improvement. By analyzing data and identifying bottlenecks, businesses can make informed adjustments to enhance the user experience, simplify the purchasing journey, and provide added incentives to spur conversions. An efficient sales funnel is the cornerstone of revenue growth, and AI optimization is the catalyst that propels it forward.	
Interviewee 6	Delivering a personalized user experience (PUE) Is paramount for businesses seeking to enhance customer satisfaction and drive conversions. Leveraging AI conversion rate optimization tools, businesses can tailor their content and interfaces to meet the specific needs and preferences of their target audience, revolutionizing the way they engage with customers. Here's a closer look at how PUE can transform your approach to customer engagement: Moving beyond one-size-fits-all: Traditional approaches often offer a generic user experience that fails to resonate with individual users. However, by harnessing AI conversion optimization tools, businesses can gather valuable insights into user behavior and preferences, enabling them to create	

tailored experiences that truly connect with their audience.

Enhancing engagement: With AI-driven personalization, businesses can offer targeted product recommendations, curated content, and intuitive site layouts that align with users' interests and preferences. This not only enhances engagement but also fosters a deeper connection with customers, driving satisfaction and loyalty.

Driving conversions: By delivering a more individualized experience, businesses can significantly impact conversion rates. Personalized recommendations and tailored messaging resonate more effectively with users, encouraging them to take action and make purchases.

Targeting high-value customers: Personalized user experiences enable businesses to identify and prioritize highvalue customers. By analyzing user data, businesses can segment their audience and tailor marketing efforts to those most likely to convert, maximizing the impact of their campaigns.

Continuous improvement: With AI-powered analytics, businesses can continually refine their approach to user experience. By tracking user behavior and preferences over time,

	businesses can adapt their strategies to meet
	the evolving needs of their audience, staying
	ahead of the competition and driving
	sustained growth.
Interviewee 7	Enhanced Customer Insights
Interviewee /	Ũ
	Understanding your customers is today more
	critical than ever. Enhanced customer
	insights, fueled by AI technology, offer
	businesses a deeper understanding of their
	audience, enabling more informed decision-
	making and personalized experiences.
	AI tools excel at processing vast volumes of
	data swiftly and efficiently. By harnessing
	this capability, businesses can uncover
	invaluable insights into customer behavior,
	preferences, and feedback. This wealth of
	information forms the bedrock for crafting
	targeted marketing campaigns and delivering
	personalized user experiences, ultimately
	enhancing customer satisfaction and fostering
	long-term loyalty.
	Moreover, AI empowers businesses to map
	out the entire customer journey with
	unprecedented granularity. From initial
	engagement to post-purchase interactions,
	AI-driven analytics enables businesses to
	pinpoint key touchpoints, identify pain
	points, and seize opportunities for meaningful

engagement. This holistic view of the	
customer journey lays the groundwork for	
more effective strategies and tailored	
interactions at every stage.	
Predictive analytics, another hallmark of AI-	
powered customer insights, equips businesses	
with the foresight to anticipate future	
customer behavior. By analyzing historical	
data and patterns, businesses can forecast	
customer needs and preferences, enabling	
proactive engagement and personalized	
offerings that resonate with their audience.	
Customer insights derived from AI enable	
businesses to identify and prioritize high-	
value customers. Armed with this knowledge,	
businesses can tailor their strategies to cater	
to the specific needs of these segments,	
whether through customized deals, loyalty	
rewards, or personalized communications.	
This targeted approach not only deepens	
customer relationships but also drives	
revenue growth and enhances overall	
business performance.	
Leveraging AI-driven customer insights	
empowers businesses to continually refine	
and optimize their strategies, driving tangible	
results and sustainable growth.	
Increased ROI	
	customer journey lays the groundwork for more effective strategies and tailored interactions at every stage. Predictive analytics, another hallmark of AI- powered customer insights, equips businesses with the foresight to anticipate future customer behavior. By analyzing historical data and patterns, businesses can forecast customer needs and preferences, enabling proactive engagement and personalized offerings that resonate with their audience. Customer insights derived from AI enable businesses to identify and prioritize high- value customers. Armed with this knowledge, businesses can tailor their strategies to cater to the specific needs of these segments, whether through customized deals, loyalty rewards, or personalized communications. This targeted approach not only deepens customer relationships but also drives revenue growth and enhances overall business performance. Leveraging AI-driven customer insights empowers businesses to continually refine and optimize their strategies, driving tangible results and sustainable growth.

Businesses are constantly seeking ways to optimize their investments and drive greater returns. Enter AI-powered solutions, which are revolutionizing the realm of marketing and sales by supercharging ROI through smarter targeting.

By harnessing AI tools to analyze vast troves of customer data and behavior, businesses can identify the most promising leads with pinpoint accuracy. Armed with this insight, personalized campaigns can be crafted to engage these leads effectively, leading to higher conversion rates and reduced costs per acquisition. As a result, businesses can enjoy a significant boost in revenue and profitability.

Take, for instance, the impact of a personalized email campaign developed using AI algorithms. Compared to a generic email blast, such targeted campaigns yield higher open rates, click-through rates, and conversion rates. This heightened engagement translates directly into a more favorable ROI, as more customers respond positively to the campaign and take desired actions.

Likewise, AI-driven recommendation engines play a pivotal role in enhancing ROI by bolstering customer engagement and

	retention. By analyzing a customer's purchase history and behavior, these engines can suggest tailored products or services, thereby increasing the likelihood of repeat business and fostering long-term customer loyalty. AI tools for smarter targeting offer a potent pathway to maximizing ROI by elevating customer engagement, trimming acquisition costs, and fortifying customer retention efforts.	gines vices, epeat comer ootent rating sition ention	nes ces, eat ner ent ing ion ion	y ar ailor sing foste axin gem ortify	istory est tai creas: and fo or sm o ma engag d for	e his gest incr and for to r en and	e hi gges ind s a: s fo y to er e and	se f gge / in ss a ls f ls f ar an	ase ugg y i ess y. ols ay mer ai s.	has sug by hes ty. bols way ome	cha su reb ine alty toc nwa ton ts,	rch n s prel sin zali to thv sto sts	ch rel in al to to ts	h s et no lt o w s,	na si b ie ty oc va n , ts	na su b ie ty oo va n ts	as su oy es y ol va m s.	as y v ols ay	s s s a	f in f	ni es nc an tc d	is st r r	t d	tc 1 ea l s s f	in maa fo		y iil ii o o a a y e	an x en tti	a o nį st		n r g te n	n ce ; ; e r n e		d tl ti ri iz	t nt		e p r	h r g t	na cc li li li li ge ge ge	k o iir	/i lu n n R R n				s c c c c c c r r n			th c r b g	d n f y y	r 1 a	r	e e f u l e	en 1 1 s s I I s	v v tc		ne ce ne ir ir ic	es s, at er nt ng on
Interviewee 9	Through sophisticated analysis of customer data, AI empowers businesses to pinpoint their ideal audience and tailor content that speaks directly to their preferences. This strategic approach not only streamlines operations and conserves resources but also yields tangible results in the form of elevated conversion rates, as customers are presented with content that resonates with their needs and desires. Heat maps provide visual representations of clicks, scrolls, and even how long users stay on particular sections of a webpage. When combined with AI, these tools become incredibly powerful. AI can uncover hidden patterns and insights in heat map data that are impossible for humans to discern.	point t that llines t also vated ented needs ns of s stay When come idden	oint hat hat nes lso ted ted eds of tay nen me den	ower lienc to tl appr con resu es, a nat r vide and ection h <i>A</i> verfu sight	empor audi ectly t egic aj and gible r n rates ent that s. s prov olls, a lar se with powe ad insi	I em eal a lirect ntegi ns a ngib on r ntent res. ups f croll cula cula d v ly p and	I e eal dire ategons ang ion nter ires aps scro icul ed oly	AI deal dire rate ons cang sion onte sire naps scr ticu ned bly s ar	AI idea idea idea s di trat ion tan rsic cont esire map rsic cont esire map nap rtic nec ibly	A id ks o str atic s ta ers co les m s, s art co in odit rns	r i aks s s rat ds ver ds ver ds tr t ks, par abi err	ta, pir pir pir pir pir pir pir pir	a, ir ir ak s s rra dd dd d h h t k s ra dd d t t ra c e	, k aa lis dd t t s s s s s s s s s s s s s	i i s s s s e i c c le r r s s, a i a i d t r r	i i i i i i i i i i i i i i i i i i i	A id s s s t id s t id s t id s s t id s s t id s s	A ddddi tr io co co si si si si tr ti ib ns	I di aran an a	al al ire te te or cor cor cu cu cu cu cu cu cu cu cu cu cu cu cu	e l e e g j j j j j j j j j j j j j j j j j	n a c gii t r r f l l l l l l l l l l l l l l l l l	nj au au ttl iic ur ra t t pp job i ls iic voo	ip u u l l c c c t t t t t v i	y a d d e tte tth s s it www.	D D D D D D D D D D D D D D D D D D D	wie ie c c c c c c c s, a a vii a i į	w en o o province a construction o province a construction of the	ve p o s s t d d c c t	e t t non non su a a a a a a a a fu h	r $r$ $r$ $r$ $r$ $r$ $r$ $r$ $r$ $r$	r: co h co h ll ll ll ll ll ll ll ll ll ll	s e n o s l i c s e e c i i l i s s	s e e a s e s s e s s t s t s t s t s t s	tiininii iininii s cu yiinii iiniii	b an r c t i u or i s e a s c A	u n F n s s n a u u n a t t I I I		si I I I I I I I I I I I I I I I I I I I	n tef o l h h o n c ; ; ; ; ; ; ; ;	e ta fe t r e e r r e r r r r a			e Dir r r n S S i i r l o r t u a	e in normal sector sect	r n i t t r r r r r r r r r r r r r r r r r	s r ly n r r r r r r r r r r r r r r r r r r		ti conservations for the servation of th	o o s. st t l n a s v	n r r s f I n u u g	piire e b b e l b c t t t t t t t t t t t t t	ir n u le ess ic er	nr t n t t v v e v r or s v w c c i	li i er s y v er d	bin na lls tte ecc tte he om de	nt at es so ed ds of ay en ne en

It allows you to pinpoint areas of your website that require attention and make data- driven decisions to enhance user experience, thus improving conversion rates. Data driven testing AI processes extensive datasets for both high-traffic sites and low- visitor web pages with remarkable efficiency. As long as the data input is accurate, this technology can uncover patterns and insights that the human eye may fail to address. With AI, it becomes inexpensive and highly efficient to: - Practice split testing - Compare and choose winning strategies - Gain an in-depth understanding of company insights For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly decisions based solely on instinct.
<ul> <li>driven decisions to enhance user experience, thus improving conversion rates.</li> <li>Data driven testing AI processes extensive datasets for both high-traffic sites and low-visitor web pages with remarkable efficiency. As long as the data input is accurate, this technology can uncover patterns and insights that the human eye may fail to address.</li> <li>With AI, it becomes inexpensive and highly efficient to: <ul> <li>Practice split testing</li> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> </ul> </li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
thus improving conversion rates. Data driven testing AI processes extensive datasets for both high-traffic sites and low- visitor web pages with remarkable efficiency. As long as the data input is accurate, this technology can uncover patterns and insights that the human eye may fail to address. With AI, it becomes inexpensive and highly efficient to: Practice split testing Compare and choose winning strategies Gain an in-depth understanding of company insights For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly
<ul> <li>Data driven testing AI processes extensive datasets for both high-traffic sites and low-visitor web pages with remarkable efficiency. As long as the data input is accurate, this technology can uncover patterns and insights that the human eye may fail to address.</li> <li>With AI, it becomes inexpensive and highly efficient to: <ul> <li>Practice split testing</li> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> </ul> </li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
datasets for both high-traffic sites and low- visitor web pages with remarkable efficiency. As long as the data input is accurate, this technology can uncover patterns and insights that the human eye may fail to address. With AI, it becomes inexpensive and highly efficient to: - Practice split testing - Compare and choose winning strategies - Gain an in-depth understanding of company insights For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly
<ul> <li>visitor web pages with remarkable efficiency.</li> <li>As long as the data input is accurate, this technology can uncover patterns and insights that the human eye may fail to address.</li> <li>With AI, it becomes inexpensive and highly efficient to: <ul> <li>Practice split testing</li> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> </ul> </li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
As long as the data input is accurate, this technology can uncover patterns and insights that the human eye may fail to address. With AI, it becomes inexpensive and highly efficient to: - Practice split testing - Compare and choose winning strategies - Gain an in-depth understanding of company insights For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly
<ul> <li>technology can uncover patterns and insights</li> <li>that the human eye may fail to address.</li> <li>With AI, it becomes inexpensive and highly</li> <li>efficient to: <ul> <li>Practice split testing</li> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> </ul> </li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
<ul> <li>that the human eye may fail to address.</li> <li>With AI, it becomes inexpensive and highly efficient to: <ul> <li>Practice split testing</li> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> </ul> </li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
<ul> <li>With AI, it becomes inexpensive and highly efficient to:</li> <li>Practice split testing</li> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
efficient to: - Practice split testing - Compare and choose winning strategies - Gain an in-depth understanding of company insights For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly
<ul> <li>Practice split testing</li> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
<ul> <li>Compare and choose winning strategies</li> <li>Gain an in-depth understanding of company insights</li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
<ul> <li>Gain an in-depth understanding of company insights</li> <li>For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly</li> </ul>
insights For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly
For example, using AI, you can test and optimize various elements of a website, thus minimizing the risks associated with costly
optimize various elements of a website, thus minimizing the risks associated with costly
minimizing the risks associated with costly
decisions based solely on instinct.
Each implemented change is underpinned by
powerful data, ensuring a successful impact
on CTR and CRO.
Interviewee 10 In the world of digital marketing AI is not a
futuristic concept anymore. This technology
excels in conversion rate optimization (CRO)
It can translate your efforts from "meh" to
"mind blowing".

Fundamental technology in AI tools is largely	
the same. Differentiator is the specific data	
set used to train the underlying machine	
learning model.	
AI isn't going to replace marketers, but a	
marketer using AI will probably replace	
marketers who don't	
AI is like a car engine. It is all about what is	
under the hood: the engine. AI tools are user	
experiences built on top of machine learning	
models, like car frames built over engines.	
Just like human marketers, AI can either be a	
generalist or a specialist.	
When you use a refined AI tool, you will get	
a refined out put on the first pass, so you get	
more conversions and you also save time	

These features affect the efficiency of conversion, as 82 percent of respondents noted that the application of AI to marketing and the subsequent optimization of campaigns based on real-time information makes a difference. The majority of the participants stressed that AI improves conversion rates by providing a PUE as a result of narrowing down the target audience, presenting relevant content, and constantly adjusting the interaction. There was a noticeable discussion of how AI-enabled recommendation engines, predictive modeling, and deeper customer trends help in interacting with the customers more effectively, thus improving the conversion rates thus making it suitable for ROI. AI also enhances conversion efficiency by guiding the buyer on the journey, improving the marketing campaigns, and coming up with the best offers in terms of pricing. Some of the respondents stressed the role of marrying AI with CRO and SEO approaches aimed at keeping, engaging, and converting visitors through the enhancement of users' scenarios and the relevance of the materials. Moreover, some respondents point to AI in the context of lead scoring/prioritization, the definition of the 'who buys', and the optimization of the sales funnel. In general, the respondent's evaluation presented a positive consensus of AI in not only increasing conversion but also the efficacy and efficiency of marketing techniques.

Hypothesis 3: On the benefits and opportunities of AI strategies in the improvement of marketing efficiency

Objective 3: To Understand the Advantages and Possibilities Connected with the Use of AI Policies in Enhancing Marketing Productivity

Null Hypothesis (H0): AI strategies do not offer a vast amount of advantages and prospects for Marketing Efficiency (Rust et al., 2021, pp. 138-151).

Alternative Hypothesis (H1): AI strategies offer a high degree of benefits and opportunities to Marketing Efficiency as is shown in the following paragraphs.

Rationale: This hypothesis focuses on the identification of the novel opportunities and improvements in the marketing field that are offered by AI. These benefits may include customer profiling and targeting, selling of advertisements, writing of articles, and even making of decisions. Through the validation of this hypothesis, the study aims at determining the extent of the benefits that AI strategies can offer as well as explore the

potential for creating new opportunities for innovation that could improve the efficiency of marketing as a whole (Syam et al., 2018, pp. 135-146).

## **RO3:** To comprehend the benefits and opportunities associated with the implementation of AI strategies on Marketing Efficiency

6. What, according to you, are the potential benefits associated with the implementation of AI strategies on marketing efficiency?

Respondents	Responses	Initial Codes
Interviewee 1	Automation of routine tasks	Automation of routine tasks/
	Improved efficiency by automating repetitive	operational streamlining / task
	tasks such as	optimization
	Lead scoring by prioritizing leads who are	Improved targeting / precision
	close to converting;	targeting / hyper- targeting
	Lead routing by automatically qualifying,	Real time insights and
	sorting and delegating leads among the sales	optimization / live
	executives. AI can accurately predict which	analytics/dynamic
	leads are qualified and which among our sales	optimization
	executives can nurture a relationship with a	Predictive analytics
	lead and close the deal.	Cross channel integration
	Email send out by creating email drip	Cost savings / expense
	campaigns to nurture leads and improve	reduction/ expenditure
	conversion rates. AI can also analyze email	optimization
	engagement to improve the emails open rate	Enhanced personalization /
	and click through rate (CTR)	tailored experiences /
Interviewee 2	Improved targeting	individualized engagements

	AI helps marketers make data backed	Expenditure optimization and
	strategies for tasks like	operational streamlining
	Customer segmentation .i.e. process data to	Process clean-sheeting
	look at patterns and decide best way to	Role-level assessment
	segment the pool of customers	
	Personalization of customer journey across	
	different channels	
	Improve ad targeting by analyzing which	
	segments clicked on and converted through	
	an ad, what ad messages resonate with each	
	segment therefore enhancing click through	
	rates (CTR)	
Interviewee 3	Live analytics	
	AI enables real-time analysis of marketing	
	data and performance metrics, allowing	
	marketers to make data-driven decisions and	
	optimize campaigns on the fly. By leveraging	
	AI-powered analytics platforms, marketers	
	can identify trends, patterns, and	
	opportunities in real-time, enabling them to	
	adjust strategies and allocate resources more	
	effectively for better outcomes	
Interviewee 4	Predictive Analytics	
	AI-powered predictive analytics can forecast	
	future trends and outcomes based on	
	historical data and current market dynamics.	
	By leveraging these insights, marketers can	

	anticipate changes in consumer behavior, identify emerging opportunities, and adjust their strategies accordingly to stay ahead of the curve and drive better results.
Interviewee 5	Cross-Channel Integration AI facilitates seamless integration across marketing channels, enabling marketers to deliver consistent and cohesive experiences to customers across touchpoints. By leveraging AI-powered platforms and tools to orchestrate cross-channel campaigns, marketers can optimize engagement and conversion rates by delivering a unified and personalized experience to customers wherever they are in their journey.
Interviewee 6	Cost Savings AI technologies can help reduce marketing costs by automating tasks, optimizing resource allocation, and improving campaign efficiency. By streamlining processes and eliminating inefficiencies, AI enables marketers to achieve better results with fewer resources, ultimately driving higher ROI and cost savings.
Interviewee 7	Targeting everyone on broad demographic indicators costs a lot of time and effort. Fortunately AI can sift through scattered

	audience to identify prospects most likely to	
	respond to our offer.	
	AI will help identify topics likely to attract	
	our audience's attention by presenting	
	content they love and understand. i.e. 'Right	
	message to Right customer at Right time	
	crafted in a way that attracts the audience's	
	attention and presented in a form they love	
	and understand	
	<b>-</b>	
Interviewee 8	Expenditure optimization and operational	
	streamlining by needing lower resources	
	since mundane and routine tasks can be	
	automated.	
Interviewee 9	Process clean-sheeting	
	by designing an optimal process from scratch	
	rather than making incremental changes to an	
	existing marketing process	
Interviewee 10	Role-level assessment	
	analyzing type and hierarchy of roles within	
	the organization or function when evaluating	
	the potential for automation for marketing	
	purposes.	

The majority of participants pointed to several possible advantages of ARCO's application of AI strategies to marketing efficiency. Some of the automation that was implemented concerned routine processes, for instance, lead scoring and routing, emails,

among others, aimed at boosting efficiency, as well as reducing costs. Analyzed targeting through strategies, personalization, and cross-channel cooperation were also listed as major benefits that allow reaching the right people with the right message at the right moment. Real-time tools, the use of which can support decision-making and modify the campaigns' conditions were noted as real-time insights, predictive analytics, and live analytics. In addition, process clean-sheeting, role-level assessment as well as expenditure optimisation was considered to be made possible through the use of AI and this would improve overall marketing operations as well as increase the general efficiency of marketing missions.

On the other hand, another 15% of the respondents were interested in particular advantages, including real-time data analysis, future pattern analysis, integration of all channels, cost optimization, targeting according to the users, and having a clean sheet of business processes. These views also highlighted the role of AI in offering the most useful data in real-time, predicting future trends, and choosing the most appropriate resource to consume, and focusing on the most receptive audiences to attain improved ROI and cost control along with enhanced marketing results.

7. How is the incorporation of AI strategies going to pave the path for further opportunities for organization's marketing efficiency?

Respondents	Responses	Initial Codes

Interviewee 1	High level data interpretation AI enables organizations to analyze large volumes of data more effectively and efficiently. By leveraging machine learning algorithms, natural language processing, and predictive analytics, organizations can extract valuable insights from data sources such as customer interactions, social media, and market trends. This enables them to make	с <b>,</b>
Interviewee 2	data-driven decisions, optimize marketing strategies, and identify new opportunities for growth. Mass customization AI allows organizations to deliver personal content to customers at scale. By leveraging AI-powered recommendation engines, chatbots, and predictive modeling, organizations can tailor content, offers, and communications to individual preferences	forecasting analysis Real time insights and optimization/ dynamic analytics / live optimization Advanced data analytics/sophisticated data analysis / high-level data interpretation Personalization at scale/ mass customization/ individualized
Interviewee 3	and behaviors. This enhances customer engagement, loyalty, and satisfaction, driving higher conversion rates and lifetime value. Omni channel synchronization AI facilitates seamless integration across marketing channels (website, social network, Apps, Google Display Network), enabling organizations to deliver consistent and	mass marketing

	cohesive content to customers across touchpoints. By leveraging AI-powered platforms and tools to orchestrate omni- channel campaigns, organizations can optimize engagement and conversion rates by delivering a unified and personalized content to customers wherever they are in their journey.	
Interviewee 4	Cost efficiency improvement AI technologies can help organizations reduce marketing spends by automating tasks, optimizing resource allocation, and improving campaign efficiency.	
Interviewee 5	Artificial intelligence enables marketers to effortlessly produce content for basic narratives like stock updates and sports summaries. Chances are, you've consumed algorithmically generated content without even realizing it.	
Interviewee 6	AI helps in predicting trends and customer behavior that helps set realistic targets, allocating resources effectively and devising strategies that align with market dynamics improving accuracy of planning and forecasting.	
Interviewee 7	Optimal pricing based on customer behavior	

Interviewee 8	analysis assists teams in making decisions about pricing strategies and product recommendations that are more likely to resonate with customers. Forecasting analysis AI helps forecast future trends and outcomes based on historical data and current market dynamics.
Interviewee 9	Some AI uses, machine learning, and experimental design to compare many different elements at the same time to determine which elements work, why they work, and then put the best messages into production to drive more engagement. AI can personalize language in the online shopping carti.e. personalized language is used to inspire each customer to complete their purchase. E-commerce brands that provide an online cart experience that "speaks" to each customer see a 3-5% increase in online revenue.
Interviewee 10	Few AI platforms uses natural language processing algorithms to "read" messages and break them down into their component parts then compares and analyzes that copy against potential high-performing variations. The platform draws insight and "memory" from a

unique knowledge base of over a million	
categorized words. The AI system then	
proposes variations that incorporate many	
different language elements, including the	
specific word or phrase used, the emotion of	
the words used, the role and placement of	
emojis, and the effect of all caps, to name a	
few. The platform then uses natural language	
generation AI to take all the learning and	
analysis into account and "write" new and	
more effective messages that outperform the	
control message.	

The opinions of the majority of participants are indicated by the following statements in which participants noted several ways in which the integration of AI strategies can open up more opportunities for organizations' marketing effectiveness. These were business intelligence and data analysis at a high level, customization for a large number of customers, integration across multiple channels, a focus on increasing the cost-effective use of resources, the evaluation of forecasts and other business trends, use of information technology to reduce the amount of manual work, business forecasting, real-time information, the use of optimization techniques, and high-level data analysis. Such strategies allow organizations to process information efficiently, present relevant material based on a client's activity, coordinate promotional campaigns in different media types, save resources, forecast tendencies, and make competent decisions to improve marketing effectiveness and discover new successful development trends.

In contrast, the rest of the participants noted general AI applications like the usage of AI-generated content creation, AI-driven product prices based on the consumers' behavior, personal language in checkouts, AI-powered messaging, and natural language processing software for message analysis and generation. These views were identifying AI as a tool to automate content generation, to refine product pricing mechanisms, enrich interaction with clients, as well as to deliver the right message to the right customer. These applications add up to giving better interaction, change rates, and, income making a declaration regarding the possibility of AI in enhancing marketing effectiveness and opening up new sections for associations.

Hypothesis 4: The Pros and Cons of Applying AI Solutions in the Framework of Marketing Efficiency

Objective 4: To Understand the Problems and Questions Related to the Employment of AI Solutions in the Context of Enhancing Marketing Performance

Null Hypothesis (H0): The issues and challenges that Marketing Efficiency faces in the implementation of AI strategies are not difficult to manage.

Alternative Hypothesis (H1): The application of AI strategies in Marketing Efficiency raises issues and challenges for its organization.

Rationale: This hypothesis covers the challenges likely to be faced when implementing AI such as technical issues, the cost of implementing AI, and the need for specialized talent. Furthermore, it discusses issues of ethical and privacy about the application of AI in marketing (Wirth, 2018). In this way, the hypothesis of the study is to determine

whether these challenges are impactful in terms of affecting marketing efficacy and to what extent the execution of AI strategies is compromised by these challenges.

# **RO4:** To comprehend the challenges and issues associated with the implementation of AI strategies on Marketing Efficiency.

8. What in your opinion are the challenges and issues regarding the implementation of AI strategies on marketing efficiency?

Table 8
---------

Respondents	Responses	Initial Codes
Interviewee 1	Skills Gap and Talent Shortage Implementing AI strategies in marketing requires specialized skills and expertise in data science, machine learning, and AI technologies. However, there is a shortage of talent with these skills, making it challenging for organizations to find and retain qualified professionals to drive AI initiatives effectively	Skills Gap and Talent Shortage Data Quality and Privacy System Harmonization Organizational Adaption & Acceptance Responsible Application /Ethical and Fair Use Data Security and
Interviewee 2	Data Quality and Privacy AI relies heavily on data, and the quality of the data used can significantly impact the effectiveness of AI-powered marketing strategies. Ensuring data accuracy, relevance, and privacy compliance is essential to prevent biases, errors, and regulatory issues that could	Cybersecurity Risks Workforce competency Cost and ROI Concerns Overreliance on AI

	undermine the integrity of AI-driven insights and recommendations.
Interviewee 3	System Harmonization Integrating AI technologies with existing marketing systems, platforms, and processes can be complex and time-consuming. Ensuring compatibility, interoperability, and seamless integration across disparate systems and data sources is crucial to unlock the full potential of AI in marketing and avoid fragmentation and inefficiencies.
Interviewee 4	Organizational Adaption & Acceptance Introducing AI technologies into the marketing organization may face resistance from employees who are unfamiliar or uncomfortable with AI-driven approaches. Change management efforts are necessary to educate, train, and empower employees to embrace AI and leverage its capabilities to drive better results and innovation.
Interviewee 5	Responsible Application /Ethical and Fair Use AI algorithms can inadvertently perpetuate biases and discrimination if not carefully designed and monitored. Ensuring fairness, transparency, and ethical use of AI in marketing is essential to avoid unintended

	consequences and maintain trust and credibility with customers and stakeholders.
Interviewee 6	Data Security and Cybersecurity Risks AI relies on large amounts of data, making it a potential target for cyberattacks and data breaches. Protecting sensitive customer data and ensuring robust cybersecurity measures are in place to safeguard AI systems and infrastructure is essential to mitigate risks and maintain trust with customers and stakeholders.
Interviewee 7	Workforce competency AI requires specialized skills and expertise in data science, machine learning, and AI technologies. However, there is a shortage of talent with these skills, making it challenging for organizations to find and retain qualified professionals to drive AI initiatives effectively
Interviewee 8	Cost and ROI Concerns Implementing AI strategies in marketing requires significant investments in technology, infrastructure, and talent. Organizations need to carefully evaluate the costs and potential ROI of AI initiatives to ensure they deliver tangible business value and justify the investment in terms of

	improved efficiency, effectiveness, and competitive advantage.
Interviewee 9	Data Security and Cybersecurity Risks AI relies on large amounts of data, making it a potential target for cyberattacks and data breaches. Protecting sensitive customer data and ensuring robust cybersecurity measures are in place to safeguard AI systems and infrastructure is essential to mitigate risks and maintain trust with customers and stakeholders.
Interviewee 10	Over Reliance on AI While AI can enhance marketing efficiency, it is not a panacea and should not replace human creativity, intuition, and judgment entirely. Organizations need to strike the right balance between AI-driven automation and human oversight to ensure that AI complements human expertise rather than supplants it.

The respondents' diverse feedback unveiled several challenges and issues contingent on the implementation of AI strategies for marketing efficiency. These were the skills shortage and talent deficit in data science and AI technologies, data quality and privacy issues, integration challenges in the systems, issues regarding the acceptance and adoption of AI in organizations, the accountable use of the technologies, data, and cybersecurity perils, competency of the workforce, and costs and returns on investments. These challenges include skills, data, integration, change management, ethics, security, people, costs, and automation/human blend.

On the other hand, a minority of the participants discussed more specific issues, namely data quality and privacy, AI systems' integration, organizations' adaptation and adoption, adequate uses of AI and cognizance of its risks and limitations, data protection and cybersecurity threats and opportunities, workforce readiness, and potential overreliance on AI. These views highlighted the need to protect the integrity and confidentiality of users' data, system interconnectivity challenges, and extended organizational preparedness to implement it, ethical use of the intelligence, security threats, talent search and retention, and the need for maintain dual approaches, the levels of automation and human interaction. The main and minority opinions combined elucidate complex issues and factors that define the implementation of AI strategies for marketing efficiency.

9. What are the ways in which the mentioned challenges and issues related to the implementation of AI strategies on marketing efficiency can be resolved by organizations?

Table 9

Respondents	Responses	Initial Codes
Interviewee 1	Upskill and Train Employees	Upskill and Train Employees
	Invest in training and upskilling employees to	Data governance enhancement
	build expertise in data science, machine	/ Invest in Data Quality and

	learning, and AI technologies. Provide ongoing education and professional development opportunities to keep employees abreast of the latest advancements in AI.	Promote Change Management Address and Ethical Concerns / Ensure Equity and Ethical
Interviewee 2	Data governance enhancement / Invest in Data Quality and Governance Ensure that data used for AI-driven marketing initiatives is accurate, relevant, and compliant with privacy regulations. Implement data governance processes to maintain data quality and integrity across systems and sources.	compliance/ Ethical oversight and bias mitigation Promote data confidentiality and privacy safe guards / Enhance Data Security and Privacy Employee Development Investment
Interviewee 3	Streamline Integration Simplify integration of AI technologies with existing marketing systems and processes by adopting standardized APIs, data formats, and interoperability standards. Work closely with IT teams and vendors to ensure seamless integration and compatibility across platforms.	Evaluate ROI and Business Value Data integrity investment Balance Automation with Human Oversight / Harmonize automation & human intervention
Interviewee 4	Promote Change Management Foster a culture of innovation and continuous learning to encourage acceptance and adoption of AI technologies within the marketing organization. Provide clear communication, training, and support to help employees adapt to new ways of working.	

Interviewee 5	Ethical oversight and bias mitigation / Address Bias and Ethical Concerns Establish guidelines and best practices for the ethical use of AI in marketing, including fairness, transparency, and accountability. Implement measures to detect and mitigate biases in AI algorithms and models, such as algorithmic audits and diversity in training data.	
Interviewee 6	Promote data confidentiality and privacy safe guards / Enhance Data Security and Privacy Implement robust cybersecurity measures to protect AI systems and data from unauthorized access, breaches, and attacks. Adhere to data privacy regulations and industry standards to ensure compliance and maintain customer trust.	
Interviewee 7	Employee Development Invest in training and upskilling employees to build expertise in data science, machine learning, and AI technologies. Provide ongoing education and professional development opportunities to keep employees abreast of the latest advancements in AI.	
Interviewee 8	Evaluate ROI and Business Value / Measure business outcomes and value proposition Conduct thorough cost-benefit analyses to assess the potential ROI and business value of	

	AI-driven marketing initiatives. Prioritize projects that offer the highest likelihood of delivering tangible benefits and align with strategic objectives.
Interviewee 9	Data integrity investment Consider that data used for AI-driven marketing initiatives is relevant, and compliant with privacy regulations. Implement data governance processes to maintain data quality and integrity across systems and sources.
Interviewee 10	Balance Automation with Human Oversight / Harmonize automation & human intervention Strike the right balance between AI-driven automation and human oversight to ensure that AI complements human expertise rather than replacing it entirely. Empower employees to leverage AI insights to make informed decisions and drive better outcomes.

The majority of the participants focused on several general approaches on how the difficulty in AI implementations in the efficiency of marketing could be resolved. The outlined strategies comprised bringing new knowledge and expertise concerning data science and AI technologies, increasing the quality of data governance, challenges related to integration with the current systems and pushing for organizational changes, meeting

the ethical issues and bias problems, encouraging the issues of data privacy and confidentiality, reviewing the measures of data value realization through ROI, and exploring the tendencies between automation and human intervention.

However, the remaining participants were more specific on the seven strategies of investing in quality and governance, change management, ethical issues, and bias, security, and privacy of data, reviewing ROI and business value, and the role of automation. These views highlighted data accuracy, protection, recommendations on change management, AI ethical considerations, security, AI ROI assessment, and the appropriate balance between AI and people. Combined, both the majority and minority positions presented several tactical stances an organization should assume to either deal with issues or promote the successful execution of AI strategies for marketing productivity.

## **1.5.1** Methodology for Testing Hypotheses

These hypotheses will be tested through both qualitative and quantitative methods of research in the study. The methodology will include:

## **1.5.2 Data Collection**

Questionnaire and survey conducted on marketing professionals and business executives and managers to get first-hand experience of using AI in marketing (Kumar et al., 2019, pp. 138-160).

Real-life examples of organizations that use artificial intelligence in the marketing systems to measure the effectiveness of the marketing initiatives on conversion rates and sales funnels.

Secondary data collected from published sources like industry reports, peerreviewed journals, and market research papers.

## 1.5.3 Data Analysis

Analysis to check the hypothesis and the correlation coefficients between the level of AI implementation and the efficiency of the marketing metrics (Lemon et al., 2016).

Case study analysis to compare and contrast different scenarios and find out the strengths, weaknesses, opportunities, and threats as well as success factors.

## **1.5.4 Ethical Considerations**

Protecting the rights and identities of all participants involved in the study and maintaining the confidentiality of collected information.

Ensuring that all survey and interview respondents provide informed consent to participate in the study.

# 1.5.5 Expected Outcomes

Therefore, the hypotheses to be tested in this study are designed to offer a comprehensive empirical examination of the impact of AI-based marketing approaches on critical components of marketing effectiveness (Wedel et al., 2016, pp. 97-121). The

outcomes of this study will be useful for enterprises interested in utilizing AI technologies to improve their competitive position. Specifically, the study will:

Further elaborate on AI's role in enhancing the sales funnel and increasing the effectiveness of conversion.

Emphasize how AI enhances the marketing practices through outlining the opportunities and advantages it brings.

Examine the challenges and concerns that arise with the integration of AI and suggest ways of addressing such barriers (Chaffey et al., 2019).

These outcomes will be useful for further explaining businesses how AI can be integrated into their marketing strategies and how they can benefit from this technology in terms of development of new opportunities for growth (Araujo et al., 2020).

## **1.6 Significance of the Study**

This study is significant as it provides a comprehensive analysis of how AI technologies are revolutionizing marketing strategies. By understanding the impact of AI on sales funnel optimization and conversion efficiency, businesses can leverage these insights to enhance their marketing efforts, increase efficiency, and improve overall performance (Brynjolfsson et al., 2017, pp.3-11).

### **1.7 Organization of the Thesis**

The thesis is organized into six chapters, each addressing different aspects of the research study. The chapters are outlined as follows:

# **Chapter 1: Introduction**

- Introduces the research topic, objectives, and significance.
- Sets the context and outlines the structure of the thesis (Cui et al., 2006, pp. 597-612).

# **Chapter 2: Literature Review**

- Reviews relevant literature.
- Provides theoretical frameworks and previous research findings.

# **Chapter 3: Research Methodology**

- Describes the research design, data collection methods, and analysis techniques.
- Discusses any limitations and ethical considerations (De Bruyn et al., 2019, pp. 84-89).

# **Chapter 4: Findings and Interpretation**

- Presents the findings of the research study.
- Analyzes the data and interprets the results in relation to the research questions.

# Chapter 5: Discussion

- Summarizes the key findings and contributions of the study.
- Discusses the findings in the context of existing literature and theoretical frameworks.
- Explores the implications of the results.

# **Chapter 6: Summary, Implications, and Recommendations**

- Provides a summary of the study.
- Discusses implications for theory, practice, and future research directions.
- Offers recommendations based on the study's findings.

#### CHAPTER II:

## **REVIEW OF LITERATURE**

#### **2.1 Introduction**

The chapter Literature Review details on the variables of the study from the existing literature perspectives. It was understood from the views of Katiyar and Katiyar (2021) that literature reviews are used to enable a context and preview of the research field. The chapter elaborates on the key themes for the study of conversion efficiency in context of using Artificial Intelligence in sales and marketing. The chapter elaborates on the factors of AI marketing and its impacts on sales to discuss the overall outcome and functions. Sabu and Kumar (2020) stated that AI is an emerging technology that holds significant potential for overall marketing and sales content development. However, in recent years, its usage and explorations are limited. The literature review using different scholarly perspectives discusses such factors and its potential for personalisation, optimization and conversion efficiency development. Also, related theories are discussed along with the research gaps which are to be analyzed and addressed in this study.

# 2.2 Key Themes for the Literature Review

#### 2.2.1 Factors of AI Marketing to Maximizing Conversion Efficiency

Big data and Advanced Analytics have been a dual-edged sword and has significantly impacted the concept by automating the marketing process where customers are predicted, behavior forecasting, and conversion percentages are identified in the marketing process. This review aims to determine the primary elements that can enable

the optimal conversion efficiency while embracing AI marketing techniques, as well as the iterative approach that combines technology and consumer understanding, the impact of automation and several ethical concerns (Castiglioni et al., 2021, pp. 9-24). Firstly, it allows the marketer to analyze and draw information from a larger data set in order to understand consumer patterns and trends. Thus, the use of machine learning algorithms and predictive analytics in the context of the businesses analyzing their audiences can become a significant advantage if the audience is going to be segmented properly. For example, based on past trends in the market, customer expenditure, gender and interaction with the marketing promotions, the AI algorithms are able to point out certain trends existing in the market. Personally identifiable information gathers enable the marketers to be specific about the contents they feed the customers, products or services they recommend thus improving the chances of a sale. On the other hand, Rathore et al., (2023) noted that Personalization comes out as a major unique selling point of marketing in the new age AI environment. Brown et al. (2020) worked on an empirical study that suggests that there is a need to build strong relations with customers by providing them with more interest and this is only possible through using customised experiences. It also offers the advantage of delivering precise marketing messages that are both timely and appropriate, reflecting the best time for a particular type of marketing message to be delivered to a particular person. For instance, digital merchants and stores employ AI in Recommendation Systems to suggest more products concerning prior purchase incidence, web-surfing behavior, and detailed demographic data, all in an attempt to guide purchase persistence and amplify conversion makes an attempt (Ma and Sun, 2020, pp. 481-504).

In addition, it is worth noting that predictive analytics, backed by AI, is a core component of effective marketing campaign management. Statistical models involve the use of underlying data to estimate subsequent trends and behavior patterns so as to help marketing people prepare themselves for the next move by the customers. The articles of Ahmad et al. (2017), Low et al., (2017) and Zhang et al. (2017) on Progressive organizations discover that predictive analytics helps in determining the most likely converting leads, churn rates and the right marketing strategies to use with different segments of audiences. It enables marketers to better understand the leads, channel, and conversion process to allocate their resources optimally, identify and go after the high potential leads, and optimize the conversion path to increase the ROI.

The fourth determinant of usage that is worthy of attention is automation, which also plays a crucial role in achieving the maximum conversion efficiency in AI marketing. Some of the routine, mundane tasks include the regular, daily send out of emails, customer care communications, and advertisement placements to name but a few; activities that AI can handle thus making marketers' time available for things like planning and relevant decision making. Johnson, (2018) adds to this thought proclaiming that automation is not only about increasing efficiency, but also about standardizing the processes and expanding marketing campaigns' potential. For example, with the help of AI facilities an organization can tend to customer queries 24/7 as this is beneficial not only for the organization but for the customers as well due to customer satisfaction and customer loyalty.

## 2.2.2 Impact on Sales Funnel Optimization Efficiency

In the context of contemporary marketing, the notion of a sales funnel remains one of the most effective paradigms for mapping consumer interactions and fine-tuning the strategies used in the conversion process (Yim et al., 2020, pp. 892-899). The integration of artificial intelligence into sales funnel optimization has further improved on traditional solutions by offering more effective means, approaches, and innovations at every stage of the funnel. This literature review therefore aims at identifying how AI marketing affects sales funnel considering the efficiency of conversion based on AI strategies such as personalized customer experience, AI's ability to provide predictive results, automation, and increased use of data in decision making.

One of the primary areas where AI is capable of contributing to the enhancement of the model, focused on the automation, personalisation and optimisation of the sales funnel, is the C2C communication. AI also promotes personalized content to potential consumers based on their browsing behaviors, past purchasing patterns, age, gender, and even likes, among other factors. Smith's research of 2019 shows that when content is made specific and relevant to a user, the chance of him/her engaging with a site or a product rises even higher. For example, AI recommendation systems can offer products or services to users taking into account their immediate context; the systems make sure to present users with content that helps to support them through the whole sales process, from consideration to purchase.

Sales funnel optimization is another critical area that AI enriches through its components such as predictive analytics. With the help of machine learning techniques, business owners are capable of foreseeing consumer behavior, determine the probability of reaching potential buyers who will actually convert, and understand the customer's needs depending on the funnel stage. (Chen et al., 2012, pp. 1165-1188) noted that predictive analytics helps marketers to allocate and deploy resources more wisely, to identify potential customers who are most likely to convert from prospective to customers, and also to align the marketing efforts with the probability of conversion. Such an approach reduces the likelihood of unproductive efforts in promoting the brand and instead focuses on the most productive areas of marketing that can influence people to change their behavior towards the brand.

According to the understanding of Wang (2023), AI can play a pivotal role in lead generation and retention. The application of AI across the customer journey includes an influence on practically all steps starting from lead capture right up to the retention phase. Automating collaboration, predicting customers, and providing them with personalized interaction experiences makes the AI a valuable tool that improves businesses' conversion rates and makes the sales process much more efficient as well as building long-lasting customer relationships in a highly-competitive world. As much as business leaders have shown concerns toward the increasing use of AI technologies in organizations, future success will be enjoyed by firms that will adopt and utilize AI in a prudent manner. Amarasinghe (2023), noted that AI technologies significantly affect the stages of the funnel for lead generation, evaluation and nurturing, as well as sales and customer retention. The available options are AI for personalized communication, better performance of predictive analysis, automating and improving customer experience, give non-overshadowed influential power to businesses, so it increases the conversion rates

with the effectiveness of the sales and maintaining the long-run customer relationships as the competitive advantage in the market. Overall, it will be evident that AI's successful utilization and proper governance results in superior competitiveness and efficient profitability molding organizational developments in the future. Once the leads are nurtured, AI also enables various interactions and processes of the customer journey follow through. Marketing automation powered with artificial intelligence technology provides businesses an ability to provide specific content to the potential clients at the right time and at the right place. This comprises personalized emails, advancing of particular marketing content on the available digital platforms, and website material that can be changed to suit the interest of a certain individual. With the help of AI, companies get the opportunity to deliver the right message to the right person at the right time that increases interest and can also develop rapport during the lead nurturing process up to the moment the potential buyer decides to make a purchase.

AI causes the manipulation and domination of conversion optimization processes through the use of predictive data analytics and real time data processing tools. Machine learning is used to develop different kinds of analytics models that help predict the behavior of a customer in the future, the intent to purchase in the near future and the strategy to adopt for converting the customer. For example, it can suggest the appropriate products to present, the price, and the promotion methods for a specific customer or when faced with external conditions.

## 2.2.3 AI-driven Personalization and Customer Engagement

Technological improvement has shifted marketing to a more personalized level through artificial intelligence to ensure that audiences are targets with relevant and timely messages throughout the marketing channel. AI is used in this approach to sift through large volumes of data and then provide insights on marketing strategies that should be deployed in customer relations. Fundamental component of AI-anchored personalization is looped analytics of various customer data, including their behavior, likes, purchase history, and interactions with online environments. By using the technology of ML, marketers can slice and dice its audience and categorize their customer profiles based on their needs and reactions in real-time. It empowers businesses to design highly targeted real-audience marketing messages that resonate with specific customer needs and executive preferences. For instance, the recommendation systems supported by artificial intelligence are among the most critical factors for improving customer interest in pursuing specific products/content. These contain customer profiles, which help predictive behaviors and purchases and inform businesses about the correct time to deliver the recommendations. It also gives more value to the consumer experience while shopping and would translate into higher conversion rates because consumers find what they have been searching for or something closely related.

Also, it helps in the real-time content as the target audience requires throughout the online communication channels ranging from website content, email marketing to social media platforms. By analyzing this browsing and engagement data, machine learning algorithms can make educated guesses about customers' behavior and interests and decide on the kind of content, message, or offer that should be targeted at each client. This adaptable approach guarantees that customers are constantly updated and that content is sent at the right time, which in turn makes the brand engagement more profound and has long-term effects. Intelligent client management also occurs within customer service interactions using a virtual attendant or a chatbot. In particular, these AI tools can be used to receive questions and answers, offer clients individual solutions, and provide real-time support and help in addressing various concerns to make the clients happier and solve different problems faster.

Nevertheless, there are some ethical issues which arise with the employment of AI that yields very personalized information: Concerns in the use of AI optimally include data security and ethical issues in presentation. Privacy is thus an aspect that needs to be given some attention because consumers ought to be able to trust the businesses with their data following transparency concerning the collection practices and the freedom from discrimination supported by the AI algorithms adhering to the legal rights of the consumer.

Therefore, the AI-enabled customization ability is a tool that enables organisations to engage the consumer resulting in a long term relationship, with an aim of having a deeper understanding of the needs of the customer and satisfying them as expected. In the framework of their functioning, artificial intelligence can follow the consumer's activity, as well as predict his actions; also, use the methods of a personalized approach to providing content; and organizing effective communication with the audience and clients, thereby, creating a base of loyal consumers – a sure-fire recipe for a consistent increase in performance in the present-day world that is variable and uncertainty-prone.

### **2.2.4 Predictive Analytics and Forecasting Models**

The use of predictive analytics has turned out to be a significant weapon in contemporary marketing strategies, where it helps companies forecast customers' actions and make marketing decisions to support their growth. Chen *et al.*, (2020) opined that it provides a detailed examination of how and why predictive analytics is significant for organizations in the process of utilizing data to drive critical decision making, tailor customers' experiences, and generally gain strategic advantage in the marketplace (Canhoto & Clear, 2020, pp. 183-193). Analytical model making involves combining statistical models and other machine-learning technologies in order to forecast future data patterns and trends. Applied in marketing, predictive analytics leverage the following data – customer attributes including demographics, past purchase behavior, web-browsing history, and engagement scores among others, to make future forecasts regarding the behavior, missing patterns, and preferences of the customer.

Customer profiling is also a major advantage of predictive analytics since it makes it possible to estimate the likely pattern of customers' behavior. This will involve the use of algorithms to determine the probability of the parties producing certain reactions based on the interactions that have occurred in the preceding periods (Sabu and Kumar, 2020, pp. 699-708). For instance, an e-commerce firm could use predictive analytics to forecast the buyers are likely to browse or purchase certain products in a store because they abandoned their shopping carts or in their previous shopping experiences. This in turn makes it easier for marketers to market specific segments in order to make promotion offers that can result in high conversion rates hence giving the marketer the maximum returns on investment. The strategic use of predictive analytics in marketing is a very important component in enhancing marketing strategies due to the availability of precise information regarding the best channel and the message to use as well as the campaign that is efficient in making clients make that all-important decision to buy. Concerning historical campaign data customer responses, marketers are able to fully establish the right time to send our marketing messages, the right content to send in our marketing messages, and where to position them (Oyewole *et al.*, 2024; Bharadiya, 2023). For instance, a predictive model can identify the appropriate time frequency with which to send out emails, the likelihood of the target customer to open the email or make a click through, or even suggest relevant content that the individual might have an interest in (Kuvvetli et al., 2021, p. 100007). Furthermore, through the use of predictive analytics, marketers can better invest in their potentials in terms of targeting and opportunism because the analytics predicts potential response of potential clients.

Overall, predictive analytics represents a cornerstone of data-driven marketing strategies, empowering businesses to anticipate customer behavior, optimize marketing campaigns, and deliver personalized experiences at scale. By leveraging predictive insights to forecast trends, enhance segmentation, and refine marketing strategies, businesses can gain a competitive edge in today's dynamic marketplace. Moving forward, continued advancements in AI and machine learning technologies will further enhance the predictive capabilities of analytics, enabling businesses to achieve greater precision, efficiency, and effectiveness in driving customer engagement and achieving business objectives.

#### 2.2.5 Machine Learning Algorithms in Marketing

Machine learning has gone on to transform approaches to marketing by defining potential customer profiles and targeting them using a large database of information that can be used to predict specific behaviors and segment the audience and minimize individual customer interactions (Seyedan & Mafakheri, 2020; Kumar, 2020). This discussion aims at presenting the key perspectives that reflect the ways in which machine learning algorithms can be used to support customer acquisition and targeting and, therefore, augment the quality of marketing efforts. Ma and Sun (2020) argues that pattern recognition is an area that is well suited for machine learning algorithms since they are optimized for making new discoveries in huge data sets and are better at this than classical statistical methods. It refers to the inputting of numerous kind of data which includes demographic details, personal preferences of web-surfing, purchase history, social media activities, and likes and dislikes of customers, into algorithms which can look for potential customers resembling existing high-value customers (Akter et al., 2022, pp. 201-216). For instance, some marketing techniques such as K-means or hierarchical clustering can help in aggregating clients with similar purchasing behaviors or preferences in a particular market to create niche marketing segments that can be effectively marketed to. Targets are also another essential use of machine learning in the identification of clients; other applications of machine learning include predictive modeling.

Other techniques, including decision trees, forests, and gradient boosting, use statistical data to predict future behavior, inclining purchase, churn rates, or a response to certain marketing communications. These models enable organizations to determine customer needs and behavior based on prior affective and effective encounters during the evaluation of target consumers, which in turn helps to create a relevant, expectancy-based marketing campaign (Arasu *et al.*, 2020, p. 106723). For instance, we can use the random forests to suggest products that a particular customer has a tendency of browsing online or when they are likely to open emails from a particular company. In fact, it is with this strength, the flexibility that machine learning offers in customer targeting, where the system is able to learn as it works. Some On-time analysis systems such as reinforcement learning, for instance, update their decision-making process as a result of feedback obtained from on-going customer interactions. Consequently, this flexibility enables marketers to intervene into their target audiences' behaviors proactively and modify their interventions based on the results observed, as well as the prevailing conditions within the targeted markets and consumers.

Machine learning algorithms optimize targeting efforts by enabling marketers to allocate resources efficiently and prioritize leads with the highest propensity to convert. Through techniques like lead scoring, algorithms assign a numerical value to each lead based on various factors such as engagement level, demographic information, and buying intent (Ebrahimi *et al.*, 2022, p.35). This prioritization ensures that sales and marketing teams focus their efforts on leads most likely to yield positive outcomes, thereby improving conversion rates and maximizing ROI on marketing investments. While machine learning offers significant advantages in customer identification and targeting, several challenges must be addressed. These include ensuring data privacy and security, managing the complexity of algorithms, interpreting model outputs accurately, and integrating machine learning systems with existing marketing technologies and workflows (Akter *et al.*, 2022, pp. 201- 216). Moreover, ethical considerations such as algorithmic bias and transparency in decision-making processes are critical to maintaining consumer trust and regulatory compliance. Machine learning algorithms play a pivotal role in modern marketing by enabling businesses to identify and target potential customers with precision and efficiency. By harnessing the power of data-driven insights, predictive modeling, and real-time adaptation, marketers can optimize customer acquisition strategies, enhance personalization efforts, and improve overall marketing effectiveness (Kuvvetli *et al.*, 2021, p. 100007). As organizations continue to invest in AI and machine learning capabilities, the ability to leverage these technologies will be essential in gaining competitive advantage and driving sustainable growth in a rapidly evolving digital landscape.

## 2.2.6 Cognitive Computing and Natural Language Processing

Al computing and NLP have significantly altered and enhanced customer relations and satisfaction by providing organizations with an unparalleled ability to recognize, interpret and fulfill or address customer requirements and inquire at their core (Chowdhary and Chowdhary, 2020, pp. 603-649). This literature review focuses on cognitive computing and NLP as tools that help to enhance customer communications and satisfaction with the services or goods offered by a business, calculation of their advantages and possible shortcomings when it comes to making the customers' experiences better. Cognitive computing means applying AI to reason on information and prepare decisions accordingly like the human brain.

As per the literature of Rajput (2020) NLP is one of the subdomains of artificial intelligence and is specifically tasked with making computers understand, analyze, and create human language in both spoken forms and written text. Thus, their function allows the implementation of cognitive computing in a business environment as a tool to interact with customers in a friendlier manner and, consequently, increase satisfaction and customer loyalty. According to Sreedevi iet al., (2022) cognitive computing increases adaptability through pre-programming the systems on how to handle a particular set of tasks with an understanding of how previous ones were handled. Recommendation engines, which leverage cognitive computing algorithms, employ NLP to help decipher the customer's wants and needs and offer suggestions based on those interests, such as suggesting products for the specific consumer (Katiyar and Katiyar, 2021, pp. 19-49). Besides heightening the satisfaction level of the end customers by offering recommendations that would be right up their alley, it also raises engagement rates and possibly the sale rate since the shopping experience has been made that much more enjoyable.

The use of cognitive computing and NLP to provide immediate support for customer services and support helps in automating the normal support tasks and increase the efficiency of support delivery. Computerized talk bots and aides with implemented NLP can accept client requests, respond in real-time, and process ordinary problems themselves. In addition, cognitive computing helps route the customers' questions to the right agent, who is best suited for handling the issue, and is less busy at the time (Liu *et al.*, 2023, p. 521). For instance, NLP allows structural sorting of the e-mails received, or

phone calls; this means that critical items get priority over minor issues etc. This can be described as the improved workflow since the delivery of services to customers will also be accelerated thus improving on the services delivered to the clients.

It is possible to identify the customer sentiment, customer interests, and their intentions by analyzing the unstructured data demographics from the customers' interactions in emails, social media, product reviews, and customer service calls. For instance, sentiment analysis algorithms can assess customer experiences to determine their level of satisfaction and areas that need to be addressed with customers, probably through feedback on social media as exemplified by businesses today (Katiyar and Katiyar, 2021, pp. 19-49). On the other hand, although cognitive computing and NLP used in enhancing the customer relations are impactful, its use brings other challenges. These are data governance requirements such as processes for privacy and security of data, and the social relevance of algorithms which are integral to AI systems of developing fair and balanced decision-making processes all essential for developing successful AI systems (Sreedevi et al., 2022, p.102888). Furthermore, the introduction of cognitive computing systems into the current organizational environment as well as its application into the current working processes calls for a considerable investment in the tech-supporting structures as well as qualified personnel. In sum, therefore, cognitive computing and Natural Language Processing are revolutionary technologies that improve on catalogue communication and satisfaction with consumers as businesses are able to comprehend, dissect and meet consumer wants and needs. Cognitive computing and NLP, while utilizing forecast, distinguish, and decision making, assist organizations to improve customer experiences, retain customers and thus gain competitive edge in the new world economy. Since more organizations are leaning towards adopting AI-powered solutions, cognitive computing with NLP as a subfield will be critical for organizations to understand and expand with customer expectations.

#### 2.2.7 Customer Relationship Management (CRM) Systems

Marketing techniques have advanced to a new level since the incorporation of the AI system to the CRM system that has provided an assurance of increased effectiveness because of its increased analytical and automation capabilities. Integrating customer data collected through various sources in real-time and using an AI framework to analyze and make sense of all the information makes it possible for businesses to gain a better understanding of the customer (Galitsky, 2020). This capability is important as it can help marketers fine tune the nature of audiences that they target and the readymade marketing gimmicks and campaigns to suit the audiences concerned, which could potentially help in achieving higher relevance and hence better audience engagement.

However, AI improves the features of the CRM tool as it goes beyond predicting the kind of behavior displayed by the customer, typical for similar customers, and outlines trends that customers may exhibit. This often gives them the capacity to know or foresee the needs that their customers are likely to have in the future and be ahead to meet these needs ranging from offering them certain specials, making recommendations for products or services well before they are needed or even coming in with some kind of intervention to counter churn (Wang, 2023, pp. 74-88). These active behaviors not only enhance customer experiences, but also increase conversion rates and customer lifetime values, both of which are critical pillars for evaluating marketing efficiency in a competitive environment.

Another aspect is automation that also has its positive effects on marketing issues within the CRM systems, where AI proves its beneficial role. AI helps in simplifying many necessary tedious activities like managing emails, social media accounts, and lead scoring so that marketing personnel can devote their time and effort on engrossing activities rather than mundane ones (Amarasinghe, 2023, pp. 1-10). This shift not only saves time but is also helpful in enhancing the trends in message promotion, thereby increasing the marketing operation consistency. In addition, what has become clear is the fact that although the use of AI can eliminate many human-driven processes, there is still a need for human input concerning judgment and analysis of results. Essential changes in the marketer's responsibilities entail shifting the duties of marketers from direct executors of campaigns and promoting products to analysts who decode what the AI systems bring forth and innovative marketers who need to fashion novel ways of marketing products. This shift is likely to create a need for skills update and transformation among the marketing workforce to optimally leverage the possibilities that AI brings while retaining the personal aspect of brand customer approach.

Summing up, the analyzed opportunities of AI integration in the CRM systems reveal significant potential in increasing the efficiency of using the systems, enhancing personalization of the approaches and effectiveness in prediction (Amarasinghe, 2023, pp. 1-10). However, the successful implementation of the systems involves the attention to the data quality, ethical concerns, and new professional perspectives for marketers. Overall, it can thus be noted that while best implemented in a well-thought-out and strategic manner, AI does hold the potential of overhauling existing marketing theories, practices, and models in a manner that facilitates data-driven decision making and improves overall customer experiences as a means of achieving long term business growth and success within the context of today's digital environment.

#### **2.3 Related Theories**

# 2.3.1 Machine Learning Algorithms in Marketing

Optimization is indeed a key component driving the efficiency of algorithms used in determining the behavior of the clients in order to improve on the general strategies. These algorithms are based on AI and machine learning that allows marketers to work with an extensive volume of information and predict consumers' actions more effectively than other methods (Bharadiya, 2023, pp. 123-134). For example, using machine learning one could predict segments of customers who are inclined to churn depending on their current activity or shift in the behavior. With this understanding, marketers are in a better position to implement effective retention efforts that aim at reducing churn risk, including offering customized promotions or addressing a client's concerns in order to maintain their patronage (Castiglioni *et al.*, 2021, pp. 9-24). Likewise, using data, algorithms can also estimate likely up-sell or cross-sell scenarios based on past buying behaviour and client preferences as to when and what kind of messages are likely to make the greatest impact with the consumers.

The most important requirement for algorithms to be effective in analyzing the behavior of the customers is to work at a high speed and handle a vast amount of data within the shortest time possible. Such datasets usually contain previous transactions, web surfing, social media activity, basic demographic data, and even positive/negative analysis from the consumers' interaction with customer service. Thus, algorithms can discover such patterns and relationships that would be hard or unnoticeable for a human analyst and a data scientist. This capability helps marketers to classify customers in a much more detailed manner based on what they like, how they act, what they have bought and/or what they are planning to buy and unsupervised learning (where there are no previously defined categories and the system just finds similar items) these systems can improve their accuracy gradually (Oyewole et al., 2024, pp. 568-574). While this is a cyclic process, it helps to produce highly accurate predictions as well as to maintain high flexibility of marketing processes that can adjust to the customers' needs and market trends. The other major benefit of algorithms marketing is that it can easily adjust the marketing campaigns as they run. Through the evaluation of real-time monitoring indicators of the campaign, the CTR, conversion rate, and ROI, algorithms can propose alterations to the targeting factors, the body of the ad, and the presently assigned budget.

Referring to the Theory of Reasoned Action, it can be stated that the algorithm helps to establish and practically apply the theory into marketing and sales practices. Applying the Theory of Reasoned Action in combination with the determinations of algorithms increases the efficiency of marketers in the analysis of behaviors of clients. Combining the theoretical framework of attitudes, subjective norms, and perceived behavioral control derived from data, algorithms can suggest the optimum way of appealing to the target audience, increase engagement with the content, and ensure the sustainable development of efficient marketing campaigns (Canhoto & Clear, 2020, pp. 183-193). However, to implement them, a certain set of solutions has been proposed that connects big data analysis with human being's intuition and moral comprehension to manage consumer decision-making process in the context of digital networks' usage.

On the other hand, Liu *et al.*, (2023) asserted that algorithms are only as strong as the data set that feed them. The prediction made with prejudiced or impure data needs to be more accurate and often results in the wrong decision being made. As a result, marketers need to reflect on input data, which should be finely tuned, and consider algorithm testing and reviewing that should be performed at specific intervals. Moreover, the use of algorithms is especially efficient when it comes to numerical information about the customers, but any qualitative characteristics of their actions - fear, anger, and preferences – may be beyond AI's capabilities. The qualitative aspect of data analysis is still the domain of human professionals who cannot relinquish their need to understand the results of these algorithms and transform them into striking marketing messages that appeal to the soul of the customer. Thus it can be concluded that algorithms at the present time are a great tool for the analysis of the customer's actions and the management of the advertising campaigns. That is how their capacities to work with a huge amount of data, learn in turn, and optimize in real time open up exceptional opportunities for marketers to increase the accuracy of targeting, personalize consumer experiences, and achieve organic business development.

#### **2.3.2 Consumer Behavior and Personalization**

The following theories discuss how consuming technology, also commonly referred to as Artificial Intelligence (AI) can help in the improvement of personalization to make an impact on the consumer's behavior in marketing environments. Among the widely-studied assumptions one can distinguish Personalization Theory which states the fact that customized interactions can enhance consumer's satisfaction and loyalty. AI also has a central role in this theory because it helps marketers to do personalization of content, product recommendations, and Interactions (Wang, 2023, pp. 74-88). AI algorithms perform data analysis in Real-time and thus can predict what product or content a particular consumer is most likely to get interested in leading to improved results in marketing.

Another theory is Expectancy-Value Theory which emphasizes that consumers' decision making is determined by the perceived value and anticipated results of a given action that is taken. AI personalization builds on this theory by presenting offers and messages that catch the consumer's attention and fit specific perceived value. For instance, it can look at buying patterns and histories and suggest products that are closely linked to a client's niche, enhancing the perceived level of value and willingness to make a purchase. Furthermore, there is Social Influence Theory that highlights the role of social communications and word of mouth as crucial factors affecting the consumers' decisions (Galitsky, 2020). Thus, AI improves personalisation in this context through data analysis of social media and online social networks with references to influencers and social relations. Thus marketers being equipped with this information adapt their strategies to

infuse their message with principles of social proof and endorsements from influential personalities.

In addition, Cognitive Dissonance Theory explains consumers' attempt to minimize differences between their actions and attitudes. AI-driven personalization solves this theory by presenting consistency in the targeted communication throughout the customers' experience. Because AI shares tailored information which is congruent with the consumers' favorable attitudes and behavior, the latter's CI is decreased thus enhancing the consumer's confidence in her decisions.

Two theories of Behavioral Economics, namely, Loss Aversion and Hyperbolic Discounting, show how Psychological factors impact the decision-making of consumers. Interaction is enhanced through the ability of AI to autonomously adjust the degree and form of the offer and reward based on the behavior responses (Akter et al., 2022, pp. 201-216). For example, it can be shown that using AI, during the time when the consumer is most likely to be in the decision-making process for using this kind of self-control triggers, deals or timely warm reminders can be sent. Therefore, the theories that are coupled demonstrate how AI has theoretical possibilities of change in augmentation for promoting target consumer's behavior adjustment.

#### 2.3.3 Predictive Analytics and Forecasting Models

In the field of analytics and forecasting techniques, the strategic implementation of artificial intelligence and machine learning theories would radically shift how business organizations evaluate future trends and consumer behavior based on existing data. These models are meant to consume massive amounts of such information as Account Transaction Records, Customer Invoice, Age, Gender or Geographic location, Macro-economic factors such as interest rates or local climatic conditions etc. (Seyedan & Mafakheri, 2020, p.53). This information when passed through the glass box of predictive analytics algorithms enables the detection of patterns, trends, and exceptions that would always otherwise go unnoticed by analysts hence assisting in the forecasting process.

Another one of the primary pillars that support the use of predictive analytics as a way of forecasting customer actions is the predictive nature of the method that provides reliable, accurate results. For example, in the Internet businesses involved in the sale of products or provision of services, the past buying patterns can be used to make future buying patterns of a customer hence providing business with tools to market to the right customer (Amarasinghe, 2023, pp. 1-10). Consequently, in financial services, predictive analytics can allow for determining the credit risk, which can be based on previous payment history as well as economic factors that will help in decision- making when it comes to lending.

Connecting theories in human society to the works produced in the sphere of predictive analytics and forecasts based on technological solutions helps refine the understanding of how these innovations affect the society. Seminal amongst these theories is Anthony Giddens' Structuration Theory which contends that there is a reciprocal relationship between structure and agency. According to this theory, in the process of predictive analytics, algorithms influence or enable decisions and behaviors, and at the same time, the consumers, marketers, or policymakers override or alter these algorithms aligning with their actions and practices (Amarasinghe, 2023, pp-1-10). Additionally, using Diffusion of Innovations Theory by Everett Rogers 'everyday knowledge is gained on how the new technologies like predictive analytics are disseminated within society. In the light of this theory, technological advancement takes place within various segments of the population depending on the benefits that are to be accrued, the degree of similarity between the new invention and existing practices, and finally the level of influence within the social system. Social Exchange Theory underscores the importance of interactions, in connections a concept that can be applied to how businesses use predictive analytics to engage with their customers. When businesses utilize analytics to provide tailored experiences and relevant suggestions customers perceive a value in their engagements (Kumar, 2020, pp. 699-708). This perceived value nurtures. Mutual giving, ultimately leading to increased customer loyalty and advocacy in the run.

Overall, analytics and forecasting models serve as tools for businesses to anticipate future trends and customer behaviors by analyzing past data. By incorporating principles from theories like Structuration Theory, Diffusion of Innovations Theory and Social Exchange Theory we gain insights into how these technological advancements not only influence business strategies but also impact societal dynamics and consumer actions.

### 2.3.4 Cognitive Computing and Natural Language Processing

Cognitive computing and natural language processing (NLP) are two related subfields of artificial intelligence (AI) that have contributed highly to the improvement of machine's interaction with and understanding of the human language and cognitive processes. Cognitive computing can be defined as a system that has an ultimate intent of replicating the human thought process and this can be done using a combination of AI technologies such as machine learning, neural networks and natural language processing (Kumar, 2020, pp. 699-708). While conventional computer systems work through deterministic analysis of all possible outcomes consistent with the input code and/or algorithms, cognitive computing systems are built to learn from experiences, similar to the human neocortex. NLP, on the other hand, is one of four subfields of AI and is more or less its abbreviation; it is the study of how machines can understand, interpret, and even produce human languages in a way that is both meaningful and relevant to a particular context. NLP techniques analyze word and phrase occurrences and syntax to gain an understanding of the content, to determine its attitude, to translate from one language to other, and even to produce an answer in natural language. Examples of the use of NLP include handling user interactions with artificial narrow AI such as chatbots, voice assistants or facilities for quick customer support chat; automated sentiment analysis for social networks and media.

Furthermore, cognitive computing increases NWL's effectiveness by adding contextual awareness and reasoning to its functions. Modern NLP architectures like BERT (Bidirectional Encoder Representations from Transformers) for instance encapsulate elements of cognitive computing in natural language processing to discover contextual shifts and understand the nuances and implied meanings in different language inputs to give coherent responses (Akter et al., 2022, pp. 201-216). This can be useful in writing applications such as content generation where the prescriptive application is able to

generate articles or reports based on given data and user content preferences and writing style as well as, logical flow (Kumar, 2016). Finally, cognitive computing and natural language processing can be considered as highly significant odds in the development of abilities of machines to understand, interpret and interact with human language and cognitive tasks, with increasing proficiency. Both together have spurred creativity in different fields, including the health sector, customer relations, content production and analytics among others. With the advancement of these technologies, it becomes important to guarantee that they are being optimally used and that the ethical consequences will be carried out in the handling of them so that the expected outcomes and objectives are achieved in society.

### 2.3.5 Customer Relationship Management (CRM) Systems

Marketing automation relies on computer algorithms to help anticipate customer behavior and enhance marketing tactics through using Artificial Intelligence (AI) in Customer Relation Management (CRM) systems. These algorithms consider the large datasets generated from the customer interactions including, online activities, purchase behavior, and social media interactions and customer support (Katiyar and Katiyar, 2021, pp. 19-49). This data can then be analyzed to find patterns and consistencies, which in turn are useful in predicting future behaviors and preferences with reasonable accuracy.

AI improves the functionality of CRM systems through better and detailed customer data, as well as targeting and communication. For example, with the help of predictive analytics algorithms customers can be divided into target groups by behavior and demographics and this allows marketers to address the target segments of customers with targeted messages and offers (Seyedan and Mafakheri, 2020, p.53). This personalization not only enhances the usage of a site but also makes the chances of purchasing higher as clients are presented with materials that they are more likely to be interested in. Marketing campaigns in CRM systems use AI-powered algorithms, which means that a number of marketing strategies are automatically processed and executed in real-time.

It can then examine the data of the campaign like click through rate and conversion rate then make changes where necessary. It offers marketers the ability to better manage budgets, improve CRM, and target what messages to deliver through the use of predictive analytics to make more appropriate cross-selling or upselling pitches. Conclusively, algorithms based on AI play a major role in decision making about customers and their behavior in relation to marketing in CRM systems. They allow targeting a unique customer, the automation of the campaigns, the customer services of the company and business intelligence for decision making. Hence, companies can transform their CRM system with the help of AI and enhance customer relations, improve the productivity of business processes, and ensure long-term development in the contemporary conditions of the market.

### 2.4 Research Gap

Despite the extensive research on AI in marketing, there remains a gap in understanding the specific impact of AI on sales funnel optimization and conversion efficiency. This study aims to fill this gap by providing empirical evidence and practical insights.

### **2.5 Conclusion**

The literature review explores the impact of AI marketing on sales funnel optimization with a focus on maximizing conversion efficiency. It highlights key themes such as the use of big data and advanced analytics to automate marketing processes and predict customer behavior and conversion rates. The review emphasizes the role of machine learning algorithms and predictive analytics in understanding consumer patterns and trends, enabling marketers to deliver personalized and timely marketing messages. Additionally, it discusses how predictive analytics, supported by AI, helps in identifying potential leads, optimizing conversion paths, and allocating resources effectively to increase ROI. Furthermore, the review stresses the importance of automation in handling routine tasks, such as email communications and customer care, to free up marketers' time for strategic decision-making. Overall, the literature review provides valuable insights into how AI marketing has the potential to significantly impact sales and marketing by enhancing personalization, optimizing processes, and maximizing conversion efficiency.

#### CHAPTER III:

#### METHODOLOGY

#### **3.1 Overview of the Research Problem**

The 4IR technical advancements are having a profound impact on the way we live and work. The impact of AI on sectors and organisations is significant, largely due to advancements in processing power, data availability, and corporate investment. Multiple studies have pointed out the impact of AI on the sales funnel. Many repetitive and inefficient tasks can be automated and expanded using ML and NLP technologies. AI has a wide range of applications, such as creating profiles of potential customers, determining the quality of leads, predicting sales revenue, scheduling meetings, forecasting attrition rates, and identifying opportunities for upgrades. Consequently, sales representatives now have greater chances to focus on valuable activities (Bhuvaneswari et al., 2024, pp. 1132-1142). AI can efficiently process large volumes of data to identify trends, provide recommendations, and offer valuable insights for data-driven decision-making. However, in the sales procedure, it is only given a secondary role instead of being prioritised. Throughout the entire sales process, the use of human judgment remains crucial. Salespeople need to effectively engage with potential customers and build strong connections, while also closely monitoring and assessing the results of machine learning. In addition, the incorporation of AI Marketing into the Sales Funnel Optimization and efficiency poses various challenges that need to be addressed. These may encompass concerns regarding security and privacy, limited availability of historical data for ML algorithm training, cost and accessibility of tools, as well as organizational and cultural

obstacles, among others (Boukhari, 2021). It is clear that the ongoing progress in the field of AI has resulted in changes across various sectors, including sales and marketing. This study seeks to research the impact of AI marketing (AIM) on sales funnel optimization, the influence of AIM on maximizing conversion efficiency, the benefits and opportunities associated with the implementation of AI strategies on marketing efficiency, and finally the challenges associated with the implementation of AI strategies on marketing efficiency. .i.e This study primarily focuses on determining the effectiveness of AI marketing approaches in improving conversion rates and optimising sales funnels. It is crucial to address the issue of conventional marketing tactics that often fail to effectively target the intended audience, personalize their preferences, and motivate them to make purchases. As a result, conversion rates tend to decline. It is clear that utilizing ML, AIdriven approaches, predictive analytics, and NLP can greatly improve sales funnel optimization processes, resulting in better customer segmentation, increased engagement, and a more personalized experience. This study aims to address a research gap by examining the impact of AI on sales and marketing procedures. It contributes to the existing literature by offering tactical insights on how AI can improve conversion efficiency.

### **3.2 Operationalization of Theoretical Constructs**

Ensuring that abstract concepts can be empirically observed and measured is a crucial step in operationalizing theoretical constructs. Measurement tools for AI marketing involve utilizing customer surveys to assess perceptions of personalization and engagement. The study will utilize customer surveys and questionnaires to collect data regarding perceptions of AI marketing and customer satisfaction. These tools offer valuable insights and ratings that enhance the study's understanding of customer experiences.

#### **3.3 Research Purpose and Questions**

The main purpose of this research is to analyze and assess the application of AI techniques and approaches in B2B sales activities. This study aims to enhance the body of knowledge by exploring AI solutions for the challenges encountered by sales employees throughout the sales process. According to Sharma et al. (2023), a sales funnel refers to a set of procedures that individuals implement to effectively convert leads. Business owners understand that each lead follows a distinct path to conversion. Nevertheless, by adopting a sales funnel approach, individuals can provide assistance to customers at every stage of their journey. Organizations and potential clients can greatly benefit from implementing an effective sales funnel.

One method for individuals to support potential customers in overcoming these challenges and increasing their sales revenue is by implementing a well-designed sales funnel optimization strategy (Sharma et al., 2023, pp. 261-274). This study focuses on maximizing Conversion Efficiency by examining the effects of AI Marketing on Sales Funnel Optimization. This study is highly valuable for various stakeholders, including marketing professionals, sales personnel, firms, businesses, technology providers, and technical teams within organizations. The use of AI conversion rate optimization, which involves analyzing information, predicting user behaviour, and optimizing webpage components using ML methods, has been proven to significantly increase conversion

rates. Utilizing AI technology, the conversion rate is enhanced by efficiently analyzing information, personalizing content, and validating data, eliminating the need for guesswork. Marketers can leverage the company knowledge generated by AI frameworks to make more informed and accurate decisions. An essential aspect of the AI conversion rate involves predictive modelling, which is utilized to analyze data and predict user behaviour. As a result, websites can experience a significant boost in conversion rates and overall efficiency by implementing AI-driven conversion rate techniques.

In order to address the proposed problem in the study, the following research questions need to be addressed:

- 1. What is the impact of AI Marketing on Sales Funnel Optimization?
- 2. What is the influence of AI Marketing on maximizing Conversion Efficiency?
- 3. What are the benefits and opportunities associated with the implementation of AI strategies on Marketing Efficiency?
- 4. What are the challenges and issues associated with the implementation of AI strategies on Marketing Efficiency?

### **3.4 Research Design**

The concept of "research design" encompasses the comprehensive framework of the chosen study methods and processes. Using the chosen design, the researchers can conduct the study using highly effective approaches and establish a solid foundation for future advancements in the field. In the research design of a study, the methodologies that should be used are laid out in great detail, including both the process and the content (Patten, 2016). An in-depth comprehension of the concept of "research design" pertains to the comprehensive plan devised by the researcher to address the study questions by means of data collection, analysis, interpretation, and discussion. Initially, this framework was created to support researchers in resolving their challenges (Turner et al., 2017, pp.243-267). The approach to conducting research that yields the most accurate and reliable data is generally regarded as the most effective method. Therefore, selecting the most effective research design is crucial in determining the outcomes of any study framework (Tobi & Kampen, 2018, pp.1209-1225).

### 3.4.1 Descriptive Research Design

This is used to provide a detailed and comprehensive analysis of a particular phenomenon or topic. A descriptive research design aims to provide a comprehensive understanding of phenomena, conditions, or populations through meticulous data collection. More specifically, it assists in addressing the what, when, where, and how questions related to the research problem, rather than focusing on the why (Nayak & Singh, 2021). There are multiple approaches that can be utilized to carry out this investigation. It commonly utilizes quantitative data, although it sometimes incorporates qualitative data for descriptive purposes. When conducting descriptive research, the researcher refrains from altering or manipulating any variables, unlike in experimental research. Thoroughly identifying, evaluating, and measuring the factors becomes essential. Surveys and observations are commonly employed techniques for conducting this study design (Nardi, 2018). There are various options available for gathering information for your research project, including online questionnaire tools and offline survey tools. Given our commitment to thorough research and addressing any knowledge gaps, we will utilize the descriptive design technique. Descriptive research, with its ability to provide a comprehensive understanding of the data and characteristics of any study, is commonly referred to as statistical research (Kim et al., 2017, pp. 23-42).

#### 3.4.2 Explanatory Research Design

Research that aims to explain the causes of events by utilizing the limited information currently available. It can assist in gaining a deeper understanding of a specific subject, analyzing the causes and mechanisms behind a particular phenomenon, and making accurate predictions for the future. An alternative way to define explanatory research is through a "cause and effect" approach that carefully examines existing data to uncover hidden patterns and trends. As a result, it is commonly regarded as a form of causal analysis. A thorough analysis investigates the fundamental factors or mechanisms of a phenomenon. This study typically serves as the first step in the research process and lays the groundwork for further investigation (Asad et al., 2019, pp, 218-229). Although it is relatively easy to find information about your issue, it is possible that there hasn't been extensive research conducted on the specific causal link you are interested in. An explanatory study can be conducted to analyze these trends and provide recommendations for possible future courses of action. Explanatory studies provide a solid foundation for gaining a comprehensive understanding of the relationship between two variables.

#### 3.4.3 Exploratory research design

In exploratory research, the main emphasis is on studying the research subjects rather than providing complete solutions to pre-existing problems. This type of investigation is commonly conducted to examine a subject that has not yet been identified. Exploratory research is conducted to enhance our comprehension of the issue, rather than to prove its existence. The objective is to determine the nature of the problem. When conducting exploratory research, it is important for the researcher to be adaptable and open to changing directions if new information or insights arise. Exploratory investigations often utilize interpretative research techniques to address questions related to what, why, and how. Exploratory research design focuses on investigating the study issue in different levels of detail, without aiming to provide definitive, conclusive answers to the research questions. Exploratory research is the preliminary research that forms the basis for more conclusive research (Sreejesh et al., 2014, pp. 25-103).

Given the circumstances, this research employs a descriptive research design to gain a deeper understanding of the participants' reactions and reasoning. This tool is highly effective for answering questions about the investigated subject, such as what, when, where, and how. It heavily relies on numerical data, with occasional inclusion of qualitative information. Thus, a descriptive research design is suitable for this study as it is commonly employed in practical situations to analyze observable settlement or recurrence conditions. In addition, the descriptive study investigation adequately provides data on the distinct characteristics of each sampling category. A descriptive study assessment provides valuable insights into how individuals are perceived and assist in formulating an effective approach for collecting data (Nassaji, 2015, pp. 129-135). This research approach aims to provide an explanation for current practices and develops several hypotheses based on previous research (Akhtar et al., 2016, p.151).

#### **3.5 Population and Sample**

A complete set of cases or groups of persons is referred to as the target population, and it is from this population one draws the sample. An "actual representation" of the population is provided by the sample that was chosen, which brings together as many different features of the population that is being targeted as possible. According to Riyaz et al. (2020), the sample size is defined as the total number of real cases or things that were chosen from the population that was being studied. According to Barragan-Lany et al. (2020), the term "sampling method" refers to the process by which the required sample is picked from the population in line with the area that is being investigated. In the realm of sampling procedures, there are two distinct types: probability sampling and nonprobability sampling.

Probability Sampling: When it comes to sampling, the technique known as probability sampling is one that ensures every single person in the population has an equal and fair chance of being chosen for inclusion in the sample by the researcher. According to Tille (2020), a method of sampling that is regarded to be used in probability sampling is one in which the respondent is chosen at random from the population. Every single item in the population must have an "equal chance" of being selected in order for probability sampling to be considered valid. There are several different types of probability sampling, including basic random sampling, stratified sampling, cluster sampling, and systematic and cluster sampling.

- Simple Random sampling is a technique that involves selecting every single item from the population in a random manner, ensuring that every single item has an equal and fair probability of being included in the sample (West, 2016, pp. 1-7).
- Stratified sampling refers to the procedure where the population is separated into subpopulations or strata according to their characteristics that differ in many ways (Benade et al., 2019, pp. 281- 314).
- Cluster sampling is a strategy that involves the division of a population into subgroups. However, in this particular technique, each subgroup is believed to possess characteristics that are comparable to those of the overall population (Mweshi & Sakyi, 2020, pp. 180-193).
- Systematic sampling: According to Mostafa and Ahmad (2018), this is believed to be comparable to simple random sampling. However, the process of conducting systematic sampling is more straightforward in comparison to a simple random sample.

Non-probability sampling: When using a non-probability sampling technique, it is not possible to ensure that every individual has an equal chance of being picked for inclusion in the study's sample. In order for individuals to be selected for inclusion in the sample, this particular method of sampling necessitates the establishment of a pre-existing explanation and condition. In most cases, this method of sampling is utilized in research projects in which the application of random probability sampling is not feasible due to limitations in terms of either time or money. The non-probability sampling technique can be broken down into four distinct categories: quota sampling, snowball sampling, judgement sampling, and convenience sampling.

- Convenience sampling is used to describe a method in which the researcher chooses the products or individuals that are most easily accessible to him or her (Rivera, 2019, pp, 314-342).
- Judgement sampling, also known as purposive sampling, is a strategy that involves the researcher utilizing his or her knowledge in the process of selecting a sample. This method involves selecting a sample that has the potential to effectively fulfill the objective of the research (Campbell et al., 2020, pp. 652-661).
- Snowball sampling is a method that is employed in situations where the target population is responsible for recruiting additional participants for the research project (Negrin et al., 2022, p.16094069221119576).
- Quota Sampling: This is a process that involves the creation of a sample by researchers, which includes individuals who are representative of a certain community (Zhang et al., 2020, pp.553-576).

For the purpose of this study, a non-probability purposive sampling method will be utilized. As opposed to random sampling, purposive sampling is used to collect information from the participants that is most relevant to the study at hand. This will also make it possible to approach the study's sample group in a straightforward manner.

In order to determine the number of repetitions or observations that should be included in a statistical sample, the process of determining the sample size becomes necessary. For any empirical research that attempts to infer data about something like a population from a sample, it is imperative that the sample size be taken into consideration. A number of considerations, such as the cost, the ease of accessibility, or the difficulty of data collecting, as well as the necessity that the sample size has enough statistical power, typically play a role in determining the sample size that is selected for a research project. In complex research, it is possible to make use of a number of different sample sizes. For instance, in a survey that is stratified, different sampling sizes could be used for each stratum. When conducting a census, it is necessary to collect all of the data pertaining to the population; hence, the optimal sample size should also be representative of the population. In the current investigation, the sample size for the collection of quantitative data through the use of the questionnaire method is 100, whereas the sample size for the collection of qualitative data through interviews is 10.

### **3.6 Participant Selection**

For the purpose of this study, a quantitative questionnaire survey will be administered to the sales personnel, marketing teams of several companies that have utilized artificial intelligence (AI), technology providers, and employees working within the marketing cells of the companies. The purpose of this survey is to analyze the perceptions of these individuals regarding the impact that AI marketing has on Sales Funnel Optimization and maximizing Conversion Efficiency. Further, the research will include an interview survey that will be conducted with marketing managers, higher management, technical managers, and customer relationship specialists. The purpose of this survey is to analyze the benefits and opportunities associated with the implementation of AI strategies on marketing efficiency, as well as the challenges that are associated with the same.

#### **3.7 Instrumentation**

According to Salkind (2010), instrumentation is the method or apparatus that the researcher uses in order to attempt to evaluate the relevant items and aspects that are pertinent to the procedure of data collection. Not only is it connected to the selection of instruments, their design, evaluation, and installation, but it is also affiliated with the circumstances in which the instruments that have been mentioned are utilized. Additionally, it is possible that the investigators will fail to recognize that variations in instrument calibrations that occur during the data collection process can lead to skewed results. As a consequence of this, instrumentation is a solution to the problem that threatens the inherent validity of the research technique. According to Chenail (2011), the method of instrumentation is an essential component of both qualitative and quantitative research studies. On the other hand, the production of closed-ended questions, which serve as the basis for all quantitative research, requires a significant amount of skill and expertise. For the purpose of achieving the objectives of the current study, a questionnaire survey is being utilized.

In the real world, quantitative indicators like bar charts, frequency tables, and pie charts are utilized in order to analyze the replies that are acquired from closed-ended questionnaires that contain multiple-choice possibilities (Patten, 2016). There are four different types of questionnaires: computer questionnaires, telephonic questionnaires, inhouse surveys, and mail questionnaires. These classifications are based on the method by

which the questions are distributed to the population that is being studied. When it comes to computer-based questions, the questionnaire is sent out to the participants by mail. On the other hand, when it comes to telephone-based questionnaires, the investigator may call the prospective respondents in order to collect their feedback. When conducting in-house surveys, the distribution of questionnaires to participants is typically done at their places of employment or residence. Lastly, when it comes to the postal questionnaires, the investigator sends the questionnaire to the individuals who replied to the survey (Saranta, 2023). It is also possible to categorize the questionnaires according to the different kinds of questions that are carried out within them. Questions that are open-ended have the potential to provide unexpected outcomes, which would make the research more significant and distinctive. In multiple-choice questions, respondents choose their responses from a list of possibilities that are shown to them. However, when there is an excessive number of choices available, it might lead to confusion among those who are in charge of responding. The dichotomous statements, on the other hand, provide the individuals who participated in the research with two opportunities: yes or no. It is the most fundamental kind of questionnaire, and it results in the least amount of confusion about the subject matter. In the following type of questionnaire, one will find scaled questions, which are also sometimes referred to as rating statements. According to McGurk and O'Neill (2016), participants have the ability to make a ranking of the preexisting responses to the questions based on a pre-defined range of values.

The questionnaire that was utilized for this study is a mixed questionnaire, which means that it includes both ranking questions and multiple-choice questions, as well as statements that were produced using a 5 point-Likert scale. In addition, the questions that are used are self-administered, which means that the clients are responsible for filling out the questionnaire surveys without any assistance from the investigator. There are a number of advantages associated with self-administered questionnaires, such as the fact that no time is wasted on administration, there is no researcher bias, a large proportion of people can contribute in a short amount of time, printable questionnaires can also be included, and they are more accurate due to the fact that the participant's identity cannot be tracked.

In addition, interviews will be carried out in order to achieve the goals and objectives of the qualitative research. For the purpose of doing data analysis on the interviews, it will be necessary to identify recurring patterns within the responses and evaluate them critically. When compared to interviews, which require social contact and are a component of data-gathering tactics that entail asking respondents questions, questionnaires are a data-collecting tool that differs from interviews. Interviews are also distinct from surveys for a number of reasons. When it comes to conducting interviews, there are two feasible options: in-person interviews and telephone interviews. Within the framework of the personal interview methodology, a person who is referred to as the interviewer will engage in face-to-face interaction with the other individual in order to pose questions to them individually. The utilization of personal interviews is normally the strategy that is utilized in order to complete the collection of information in a methodical manner. The "method of data collection" that is commonly referred to as the telephonic method entails conducting interviews with respondents from the comfort of their own homes. (Roulston & Choi, 2018) Despite the fact that it is not generally used, it is a vital component in the process of carrying out industrial surveys even though it is not widely utilized. There are three unique types of interviews, which are referred to as "organized, semi-structured, and unstructured interviews." Among these three categories of interviews, there are a few fundamental differences between each of them. One example of a structured interview is the use of a questionnaire that is given verbally with the purpose of collecting information. In most cases, it is completed in a short period of time and consists of a surface-level comprehension of the subject matter. There are a huge number of incredibly significant questions that cover the range of themes that are going to be studied when conducting semi-structured interviews. These questions make up a large proportion of the questions. According to Osborne and Grant-Smith (2021), unstructured interviews are a type of in-depth interview that gives the researcher the ability to collect a wide variety of data while maintaining their concentration on accomplishing a certain goal.

Thus, a 5-point Likert Scale will be used to develop the quantitative questionnaire, while the qualitative interview survey will include open-ended questions that will be answered by the interviewees.

### **3.8 Data Collection Procedures**

For the purpose of primary data gathering, the research makes use of a dual methodology, which incorporates both "quantitative and qualitative methods." Primary data will be acquired through the use of survey questionnaires for the purpose of gathering "quantitative data." In addition to being disseminated in print, these questionnaires will also be distributed by electronic means, with the distribution mode being matched to the respondents' level of accessibility. With electronic distribution, it is possible to reach a greater number of people and collect data more effectively. On the other hand, print distribution may be applied in situations where electronic accessibility is restricted. For the purpose of ensuring the correctness and dependability of the information that has been acquired, the quantitative data that has been collected will be subjected to a rigorous validation and cleaning process.

While qualitative data will mostly be gathered through "in-depth interviews," quantitative data will be gathered differently. Either in-person or through the use of virtual platforms, these interviews will be carried out in order to accommodate the participants' preferences and fulfill their needs. There is the potential for a wider and more varied range of opinions to be expressed thanks to the adaptability of the interview format. In order to ensure that a thorough understanding of the motives, problems, and outcomes related to agricultural policies is achieved, audio recordings and extensive notes will be utilized during the interviews. This will allow for the depth of qualitative insights to be captured. The combination of the two primary data-gathering methods increases the depth and comprehensiveness of the research, which in turn makes it possible to conduct an in-depth investigation into the complex terrain of the impact of artificial intelligence marketing on sales funnel optimization on a comprehensive level.

### **3.9 Data Analysis**

This research makes use of a dual method of data analysis, blending "quantitative and qualitative approaches," with the objective of achieving an all-encompassing knowledge of the impact that artificial intelligence marketing has on sales funnel optimization. It is planned to make use of statistical methods in order to carry out an exhaustive investigation of the quantitative data. The utilization of descriptive statistics will allow for the identification of patterns and trends in demographic information, educational qualification, and other variables that are pertinent to the case at hand. In order to determine the existence of connections and correlations within the quantitative dataset, it will be submitted to SPSS analysis as well as other relevant statistical approaches. The end outcome of this will be the supply of quantifiable insights about the impact that AI marketing has.

Simultaneously, the qualitative aspect of the research will make use of topic analysis in order to carry out an in-depth investigation.

An approach known as the "thematic analysis method" will be utilized in order to conduct the analysis of the outcomes of the study. A technique known as thematic analysis (TA) is a technique that is utilized to recognize, evaluate, and comprehend patterns of meaning in qualitative data. When it comes to qualitative analytic procedures, TA stands out due to the fact that it provides a method that is not dependent on any particular theoretical framework. As a result, it offers a flexible instrument that can be utilized without being constrained by any certain theoretical approach. The use of TA provides you with a structured method for transforming qualitative data into codes and themes. Codes are developed in order to search for patterns in the information that several individuals provide in response to an inquiry. On the scale of things that can be used for study, they are the smallest. Providing an outline of themes that demonstrate what the facts and ideas are truly about is a very vital function that they serve. According to Guest et al. (2012), the themes provide the researcher with a means of providing support for his or her analytical opinions of the manner in which the respondents arranged and reported the information.

For the purpose of determining which themes are shared by a variety of respondents, thematic analysis is an extremely useful tool. Utilizing software or carrying out thematic analysis manually are the two approaches that can be utilized to carry out the process. It is unfortunate that the current study is unable to accommodate the minimum of fifty participants that is necessary for doing analysis through software. This is because time restrictions prevent this from being possible. In light of this, the research will employ a method of thematic analysis that is performed manually. Terry et al. (2017) will serve as the guide for the theme analysis that will be conducted in this study. Interactions that are just semi-structured will result in the production of information that will be transcribed.

Following the completion of the transcription of the data, the next step in the research process will involve collecting the responses of each participant to the identical topic. When we have collected all of the responses, we will implement a color-coding system that is consistent in order to classify responses or concepts that are related to one another. These concepts are going to be abbreviated into initial codes that are brief. Over time, these fundamental codes will be transformed into themes. In order to avoid excessive repetition, issues that are similar or that come up again and again will be grouped together. The final collection of topics will serve as the basis for a full analysis that will be discussed.

After the interviews have been transcribed, they will be coded and categorized in a methodical manner in order to discover recurring themes that have been noted. The objective of this qualitative method is to document the intricacies, views, and experiences that are related to artificial intelligence marketing. In doing so, it adds a substantial amount of contextual information to the main results that were reached by the research. The objective of this all-encompassing research method is to provide a nuanced and in-depth analysis of the impact that artificial intelligence marketing has on sales funnel optimization. In order to enhance the validity and reliability of the findings of the research, the triangulation of qualitative and quantitative data is a method that is utilized.

#### **3.10 Research Design Limitations**

There are a number of restrictions associated with descriptive research approaches. The hypotheses in these studies are frequently not supported by previous research, and the data on potential confounding factors or other sources of bias are rarely provided. They have a tendency to reflect well-established relationships, but they cannot be utilized to draw conclusions about causality. Moreover, descriptive studies do not include a comparable group, which restricts their capacity to establish relationships or test hypotheses with regard to the subject matter. Descriptive research can nevertheless be useful in identifying key circumstances that deserve additional inquiry, despite the limitations that have been mentioned. The acquisition of first-hand information on the experiences that patients, families, or experts have had with a specific subject is another beneficial application of this method. On the other hand, researchers ought to exercise caution when it comes to labelling their work as a particular qualitative approach when it might be more appropriate for a qualitative descriptive strategy. It is essential to acknowledge the limitations of descriptive research in terms of establishing causation and determining connections, despite the fact that descriptive research does have certain definite advantages (Remler and Van Ryzin, 2021).

#### **3.11 Conclusion**

By investigating the influence that artificial intelligence marketing has on sales funnel optimization, the primary objective of the current research study is to reach the highest possible level of conversion efficiency. The present research objective will be accomplished through the utilization of a mixed research technique, which will involve the collection of qualitative and quantitative data during the course of the research. When it comes to the qualitative interview survey, the quantitative questionnaire will be prepared on a Likert Scale with five points, while the qualitative interview survey will consist of multiple open-ended questions that the respondents will be responsible for answering. In addition to that, the research design utilized in the study was descriptive. Moreover, the samples that will be used for the research will be collected through the use of a method known as purposive sampling. In conclusion, the data that was gathered through the questionnaire survey will be examined through the use of a number of statistical tests and SPSS. On the other hand, the qualitative data that was gathered through the interview survey will be studied through the use of theme analysis.

#### CHAPTER IV:

#### RESULTS

### **4.1 Demographic Analysis**

Information and data were gathered to complete the study with the help of developing questionnaires and other sources. It has been analyzed from the results that the majority of respondents i.e. 38% responded to the survey aged between 31-40 years. Considering the gender of the respondent's majority of respondents i.e. 59% were male and only 41% were females. The majority of respondents have done graduation i.e. 67%. Furthermore, the majority of respondents i.e. 27% have 6-10 years of professional experience. Apart from this, 61% of respondents were married. In addition to this, the majority of respondents i.e. 35% said that they are marketing managers.

### 4.2 Descriptive Statistics

A descriptive analysis further analyzed variables identified for the study. The descriptive statistics show mean and standard deviation values. The use of AI in marketing has streamlined our sales funnel, making it more efficient from lead generation to conversation having a mean value of 4.48 and a standard deviation obtained was 0.541. The sales conversion rate increases due to the AI marketing process having a mean value of 4.44 and a value of standard deviation was 0.574. Further, the lead generation process of the organization is significantly improved after the adoption of AI having a mean value of 4.28 and a standard deviation of 0.570. The organization takes into consideration the customer's entire journey from awareness to purchase while designing the sales funnel

with a mean value of 4.42 and a standard deviation of 0.554. The organization has successfully optimized its sales funnel for improvement of the conversion rate of the customers with a mean value of 4.36 and a standard deviation of 0.503.

In addition to this, the organization effectively uses data and analytics for the optimization of the sales funnel process with a mean of 4.46 and a standard deviation of 0.593. The lead qualification process within the sales funnel is quite efficient having a mean value of 4.30 and a standard deviation of 0.659. Moreover, the organization has ensured that the stages of the sales funnel are clearly understood and defined with a mean value of 4.42 and a standard deviation of 0.589. The organization regularly reviews and improves its conversation tactics to ensure maximum efficiency with a mean value of 4.08and a standard deviation of 0.872. The organization has optimized its processes to ensure a smooth and efficient transfer from lead to customer mean value of 4.29 and a standard deviation of 0.537. Personalization of customer interaction helps the organization in enhancing conversion efficiency is also a variable depicting a mean value of 4.62 and a standard deviation of 0.488. Another variable as we effectively implement the available resources for increasing the conversion rates with a mean value of 4.13 and a standard deviation of 0.691. The current strategies implemented by the organization for converting leads to customers are highly effective with a mean value of 4.00 and a standard deviation of 0.816. The organization is ensuring that marketing resources are used to achieve its goals with a mean value of 4.04 and a standard deviation of 0.618. The marketing efforts of the organization ensure that it reaches the target audience with a mean value of 4.05 and a standard deviation of 0.744. The organization has a higher percentage of conversions with a value of a mean of 4.07 and a standard deviation of 0.714. The marketing campaign of the organization maintains a high return on investment with a mean value of 3.96 and a standard deviation of 0.852. The organization utilizes different marketing channels to ensure maximum reach and impact.

The use of AI has opened new opportunities for scalability and business growth for the organization with a mean value of 4.52 and a standard deviation of 0.502. The use of AI has provided the organization with deeper insights into customer behavior and preferences with a mean value of 4.77 and a standard deviation of 0.423. The organization enjoys a competitive advantage due to the use of AI strategies with a mean value of 4.08 and a standard deviation of 0.486. AI strategies have enhanced the operational efficiency of the organization has a mean value of 4.35 and a standard deviation of 0.479. The implementation of AI strategies has led to improved decision-making in the organization with a mean value of 4.48 and a standard deviation of 0.611. The integration of AI strategies within the existing systems of the company is quite challenging as the mean value with 4.39 and a standard deviation of 0.490. The cost associated with integrating AI strategies is a major barrier for the company with a mean value of 3.02 and a standard deviation of 1.146. The company lacks the necessary skills and expertise for the implementation of AI strategies with a mean value of 2.23 and a standard deviation of 1.205. The organization faces challenges with the quality and availability of data required for effective AI implementation with a mean value of 4.66 and a standard deviation of 0.476. Lastly, the technical know-how required for the implementation of AI strategies is a major challenge for our company with a mean value of 3.75 and a standard deviation of 1.226.

## **Descriptive Statistics**

### Table 10

#### **Descriptive Statistics**

	N	Minimum	Maximum	Mean	Std. Deviation
The use of AI in marketing has	100	3	5	4.48	.541
streamlined our sales funnel,					
making it more efficient from					
lead generation to conversation.					
The sales conversion rate	100	3	5	4.44	.574
increases due to the AI					
marketing process.					
The lead generation process of	100	3	5	4.28	.570
the organisation is significantly					
improved after the adoption of					
AI					
The organisation take into	100	3	5	4.42	.554
consideration the customer's					
entire journey from awareness					
to purchase while designing the					
sales funnel.					
The organisation has	100	3	5	4.36	.503
successfully optimised its sales					
funnel for improvement of the					
conversion rate of the					
customers.					
The organisation effectively	100	3	5	4.46	.593
use data and analytics for the					
optimisation of the sales funnel					
process.					
The lead qualification process	100	2	5	4.30	.659
within the sales funnel is quite					
efficient.					
emcient.					

The organisation has ensured that the stages of the sales funnel are clearly understood and defied.	100	2	5	4.42	.589
The organisation regularly review and improves its conversation tactics for	100	2	5	4.08	.872
ensuring maximum efficiency. The organisation has optimised their processes to ensure a smooth and efficient transfer	100	3	5	4.29	.537
from lead to customer. Personalisation of customer interaction helps the organisation in enhancing	100	4	5	4.62	.488
conversion efficiency. We effectively implement the available resources for	100	2	5	4.13	.691
increasing the conversion rates. The current strategies implemented by the organisation for converting	100	2	5	4.00	.816
leads to customers are highly effective. The organisation is ensuring that marketing resources (budget, personnel, etc) are	100	3	5	4.04	.618
used to achieve its goals. The marketing efforts of the organisation ensure that it	100	2	5	4.05	.744
reaches the target audience. The organisation has a higher	100	2	5	4.07	.714
percentage of conversions. The marketing campaign of the organisation maintains a high return on investment.	100	2	5	3.96	.852

The organisation utilise different marketing channels to ensure maximum reach and impact.	100	4	5	4.75	.435
The use of AI has opened new opportunities for scalability and business growth for the organisation.	100	4	5	4.52	.502
The use of AI has provided the organisation with deeper insights into customer behaviour and preferences.	100	4	5	4.77	.423
The organisation enjoys a competitive advantage due to the use of AI strategies.	100	3	5	4.08	.486
AI strategies have enhanced the operational efficiency of the organisation.	100	4	5	4.35	.479
The implementation of AI strategies has led to improved decision-making in the organisation.	100	3	5	4.48	.611
The integration of AI strategies within the existing systems of the company is quite challenging.	100	4	5	4.39	.490
The cost associated with integrating AI strategies is a major barrier for the company.	100	1	5	3.02	1.146
The company lacks the necessary skills and expertise for the implementation of AI strategies.	100	1	4	2.23	1.205

The organisation face challenges with the quality and availability of data required for effective AI implementation.	100	4	5	4.66	.476
The technical know-how required for the implementation of AI strategies is a major challenge for our company.	100	1	5	3.75	1.226
Valid N (listwise)	100				

# **Frequency Table**

Table 11

		Frequency	Percent	Valid Percent	Cumulative Percent
	18 - 30 years	32	32.0	32.0	32.0
	31 - 40 years	38	38.0	38.0	70.0
	41 - 50 years	14	14.0	14.0	84.0
Valid	51 - 60 years	9	9.0	9.0	93.0
	60 and above	7	7.0	7.0	100.0
	Total	100	100.0	100.0	

Age

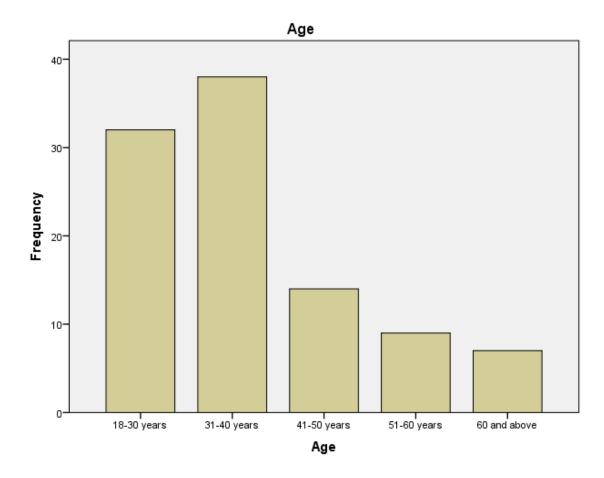


Figure 1

Table 12

		Frequency	Percent	Valid Percent	Cumulative Percent	
	Male	59	59.0	59.0	59.0	
Valid	Female	41	41.0	41.0	100.0	
	Total	100	100.0	100.0		

Gender

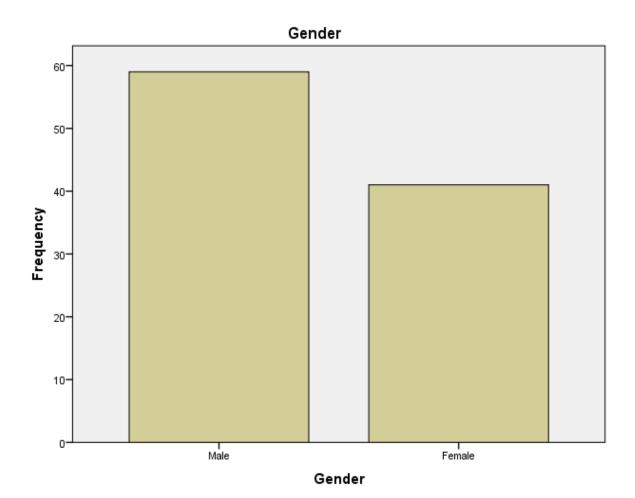


Figure 2

Table 13

		Frequency	Percent	Valid Percent	Cumulative Percent
	Graduate	67	67.0	67.0	67.0
Valid	Post Graduate	29	29.0	29.0	96.0
	Doctorate or Equivalent	4	4.0	4.0	100.0
	Total	100	100.0	100.0	

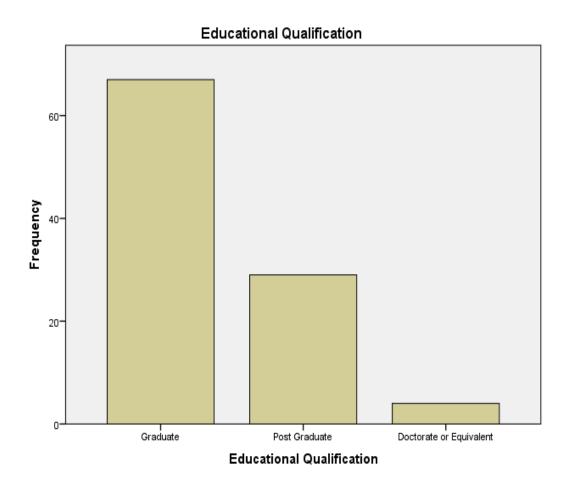


Figure 3

# Table 14

# Years of Professional experience

		Frequency	Percent	Valid Percent	Cumulative
					Percent
	0 - 5 years	18	18.0	18.0	18.0
	6 - 10 years	27	27.0	27.0	45.0
	11 - 15 years	16	16.0	16.0	61.0
Valid	16 - 20 years	21	21.0	21.0	82.0
	21- 25 years	10	10.0	10.0	92.0
	More Than 25 years	8	8.0	8.0	100.0
	Total	100	100.0	100.0	

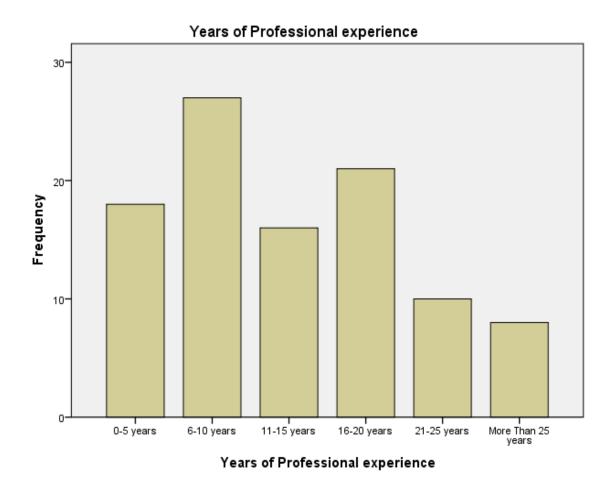
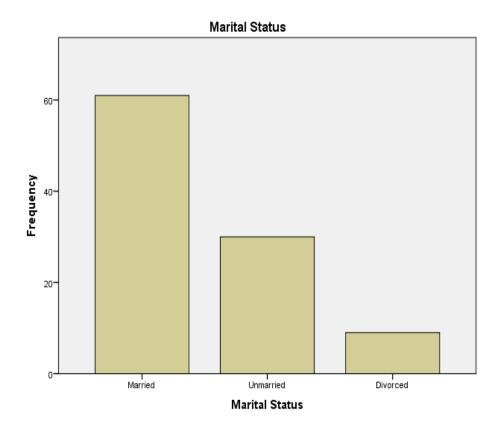


Figure 4

## **Marital Status**

		Frequency	Percent	Valid Percent	Cumulative Percent
	Married	61	61.0	61.0	61.0
	Unmarried	30	30.0	30.0	91.0
Valid	Divorced	9	9.0	9.0	100.0
	Total	100	100.0	100.0	



# Figure 5

# Table 16

# l am a

		Frequency	Percent	Valid Percent	Cumulative Percent
	Marketing Manager	35	35.0	35.0	35.0
	Higher Management	11	11.0	11.0	46.0
	Technical Managers	13	13.0	13.0	59.0
Valid	Customer Relationship Specialists	12	12.0	12.0	71.0
	Sales Personnel	17	17.0	17.0	88.0
	Technology Providers and Employees	8	8.0	8.0	96.0
	Others/7	4	4.0	4.0	100.0
	Total	100	100.0	100.0	

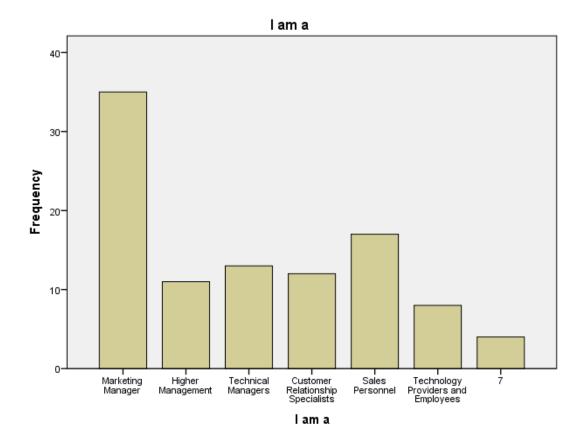


Figure 6

# **4.3 Reliability Statistics**

A reliability test was conducted using SPSS to evaluate the measuring instrument's dependability. The Cronbach's value obtained from this test indicates the level of consistency within the raw data. This analysis is especially useful when dealing with questionnaires that contain multiple Likert scale questions. Its purpose is to determine the reliability of the scales used in the analysis. The sample size is 100.

# **Item-Total Statistics**

	Scale Mean if	Scale	Corrected	Cronbach's
	Item Deleted	Variance if	Item-Total	Alpha if Item
		Item Deleted	Correlation	Deleted
The use of AI in marketing	109.17	30.365	.088	.641
has streamlined our sales				
funnel, making it more				
efficient from lead				
generation to				
conversation.				
The sales conversion rate	109.21	28.915	.313	.623
increases due to the AI				
marketing process.				
The lead generation	109.37	29.589	.204	.632
process of the				
organisation is				
significantly improved after				
the adoption of AI				
The organisation take into	109.23	29.128	.292	.625
consideration the				
customer's entire journey				
from awareness to				
purchase while designing				
the sales funnel.				
The organisation has	109.29	31.117	034	.650
successfully optimised its				
sales funnel for				
improvement of the				
conversion rate of the				
customers.				
The organisation	109.19	30.458	.056	.645
effectively use data and				
analytics for the				
optimisation of the sales				
funnel process.				

The lead qualification process within the sales funnel is quite efficient.	109.35	29.341	.197	.632
The organisation has	109.23	29.977	.133	.638
ensured that the stages of the sales funnel are clearly				
understood and defied.				
The organisation regularly	109.57	28.672	.187	.635
review and improves its				
conversation tactics for				
ensuring maximum				
efficiency.				
The organisation has	109.36	29.990	.153	.636
optimised their processes				
to ensure a smooth and				
efficient transfer from lead to customer.				
Personalisation of	109.03	30.474	.087	.641
customer interaction helps	109.00	30.474	.007	.0+1
the organisation in				
enhancing conversion				
efficiency.				
We effectively implement	109.52	28.777	.259	.626
the available resources for				
increasing the conversion				
rates.				
The current strategies	109.65	28.210	.266	.625
implemented by the				
organisation for converting				
leads to customers are				
highly effective.	400.04			
The organisation is	109.61	29.048	.262	.626
ensuring that marketing				
resources (budget, personnel, etc) are used to				
achieve its goals.				
aonieve no guaio.			l	l

The marketing efforts of the organisation ensure that it reaches the target audience.	109.60	26.444	.547	.592
The organisation has a higher percentage of conversions.	109.58	26.691	.539	.595
The marketing campaign of the organisation maintains a high return on investment.	109.69	26.075	.503	.593
The organisation utilise different marketing channels to ensure maximum reach and impact.	108.90	30.273	.150	.637
The use of AI has opened new opportunities for scalability and business growth for the organisation.	109.13	29.508	.260	.628
The use of AI has provided the organisation with deeper insights into customer behaviour and preferences.	108.88	30.652	.074	.641
The organisation enjoys a competitive advantage due to the use of AI strategies.	109.57	29.520	.270	.628
AI strategies have enhanced the operational efficiency of the organisation.	109.30	31.364	077	.652
The implementation of AI strategies has led to improved decision-making in the organisation.	109.17	28.446	.362	.617

The integration of AI strategies within the existing systems of the	109.26	29.669	.238	.630
company is quite challenging.				
The cost associated with integrating AI strategies is	110.63	28.397	.120	.651
a major barrier for the				
company.				
The company lacks the	111.42	29.074	.050	.665
necessary skills and				
expertise for the				
implementation of AI				
strategies.				
The organisation face	108.99	31.242	054	.650
challenges with the quality				
and availability of data				
required for effective AI				
implementation.				

### **Reliability Statistics**

Cronbach's Alpha	N of Items
.641	27

Cronbach's Alpha is 0.641 for 27 items, indicating excellent internal consistency. This high value suggests that the items are highly correlated and measure the same underlying construct reliably. Thus, the scale is a reliable tool for assessing the intended construct.

To identify the impact of AI Marketing on Sales Funnel Optimization, Linear regression is employed

### Model Summary

Model	R	R Square	Adjusted R	Std. Error of the Estimate
			Square	
1	.088ª	.008	002	.28872
	(0 )			-

a. Predictors: (Constant), AIM

The R Square value of 0.008 indicates that AI Marketing (AIM) explains only 0.8% of the variance in Sales Funnel Optimization (SFO).

# Table 20

AN	٥v	/A <sup>a</sup>
----	----	-----------------

Model	Sum of Squares	df	Mean Square	F	Sig.
Regression	.064	1	.064	.772	.382 <sup>b</sup>
1 Residual	8.169	98	.083		
Total	8.234	99			

a. Dependent Variable: SFO

b. Predictors: (Constant), AIM

The ANOVA table shows that the overall regression model is not statistically significant (F = 0.772, p = 0.382). This indicates that AI Marketing does not significantly predict Sales Funnel Optimization.

Table 21

Coefficient	sa
-------------	----

Model Unstandardized Coefficients		Standardized Coefficients	t	Sig.		
		В	Std. Error	Beta		
1	(Constant)	4.068	.370		10.988	.000
1	AIM	.075	.085	.088	.879	.382

a. Dependent Variable: SFO

The coefficient for AIM is 0.075 (p = 0.382), suggesting that the impact of AI Marketing on Sales Funnel Optimization is not statistically significant. The positive coefficient indicates a slight increase in SFO with an increase in AIM, but this result is not reliable due to the high p-value.

The linear regression analysis reveals that AI Marketing does not have a significant impact on Sales Funnel Optimization. The very low R Square value, non-significant Ftest, and high p-value for the AIM coefficient all suggest that AI Marketing is not a strong predictor of improvements in Sales Funnel Optimization. Therefore, we do not reject the null hypothesis and conclude that there is no significant impact of AI Marketing on Sales Funnel Optimization.

To assess the influence of AI Marketing on maximizing Conversion Efficiency, Linear regression is employed

Table 22

Model	R	R Square	Adjusted R Square	Std. Error		of	the
				Estim	nate		
1	.288ª	.083	.074	.3365	53		

**Model Summary** 

a. Predictors: (Constant), AIM

The R Square value of 0.083 indicates that AI Marketing (AIM) explains 8.3% of the variance in Maximizing Conversion Efficiency (MCE). The Adjusted R Square is slightly lower at 0.074, suggesting that the model has some explanatory power, although it is modest.

## **ANOVA**<sup>a</sup>

Model	Sum of Squares	df	Mean	F	Sig.
			Square		
Regression	1.004	1	1.004	8.862	.004 <sup>b</sup>
<sub>1</sub> Residual	11.099	98	.113		
Total	12.102	99			

a. Dependent Variable: MCE

b. Predictors: (Constant), AIM

The ANOVA table shows that the overall regression model is statistically significant (F = 8.862, p = 0.004). This indicates that AI Marketing has a significant effect on Maximizing Conversion Efficiency.

#### Table 24

Μ	lodel	Unstandardized		Standardized	t	Sig.
		Coefficients		Coefficients		
		В	Std. Error	Beta		
1	(Constant)	2.943	.431		6.821	.000
	AIM	.296	.100	.288	2.977	.004

**Coefficients**<sup>a</sup>

a. Dependent Variable: MCE

The coefficient for AIM is 0.296 (p = 0.004), suggesting that AI Marketing has a statistically significant positive effect on Maximizing Conversion Efficiency. For each unit increase in AIM, MCE is expected to increase by 0.296 units.

The linear regression analysis reveals that AI Marketing significantly influences Maximizing Conversion Efficiency. The R Square value, although modest, indicates that AIM explains 8.3% of the variance in MCE. The significant F-test and the positive coefficient for AIM, with a p-value of 0.004, suggest that AI Marketing positively impacts Conversion Efficiency. Therefore, we reject the null hypothesis and conclude that AI Marketing has a significant and positive influence on Maximizing Conversion Efficiency.

# **4.4 Qualitative Analysis**

Considering the research objective first it has been analyzed that the use of AI can help in creating awareness, interest and desire among the target consumers. The most frequently mentioned advantage of using AI was the ability to design advertisements, emails, or social media posts based on users' data. Visualization and fitting applications were highlighted as important since they sought to make the consumers more confident and eager to make orders, especially for products such as clothing and beauty products. The use of chatbots and virtual assistants was noted for real-time conversation and consultation with potential buyers, thus improving their experience.

The incorporation of artificial intelligence in marketing is set to influence controllably the segmentation and ensuing marketing of product or service-related marketing campaigns. Several participants also have insisted on real-time segmentation pointing out the fact that with the help of AI algorithms, the targeted audiences could be segmented depending on the change of behavior and inclinations. Hyper-personalization, mentioned by several participants, refers to designing unique experiences for each consumer by using recommendation algorithms as well as offering messages and content that can create a better connection and increase people's attention. The second research objective is to assess the influence of AI marketing on maximizing conversion efficiency. The use of AI also plays a serious role in changing the percentage of converting customers and retaining them for oneself or the service provider. The respondents mentioned that AI enhances customers' satisfaction via chatbots, virtual personal assistants, and recommendations that increase satisfaction and as a result, encourage repeat purchases and recommendations. These features affect the efficiency of conversion, as 82% of respondents noted that the application of AI to marketing and the subsequent optimization of campaigns based on real-time information makes a difference. The majority of participants stressed that AI improves conversion rates by providing a PUE as a result of narrowing down the target audience, presenting relevant content, and constantly adjusting the interaction. Some of the respondents stressed the role of marrying AI with CRO and SEO approaches aimed at keeping, engaging, and converting visitors through the enhancement of users' scenarios and the relevance of the materials.

The third objective is linked to comprehending the benefits and opportunities associated with the implementation of AI strategies on marketing efficiency. The majority of participants pointed to several possible advantages of ARCOs' application of AI strategies to marketing efficiency. Some of the automation that was executed concerned routine processes, for instance, lead scoring and routing, emails among others aimed at boosting efficiency and reducing cost. Real-time tools, the use of which can support decision-making and modify the campaigns' conditions were noted as real-time insights, predictive analytics, and live analytics. In addition, process clean-sheeting, role-level assessment as well as expenditure optimisation was considered to be made possible through the use of AI and this would improve overall marketing operations as well as increase the general efficiency of marketing missions.

The opinions of the majority of participants are indicated by the following statements in which participants noted several ways in which the integration of AI strategies can open up more opportunities for organizations' marketing effectiveness. These were business intelligence and data analysis at a high level, customization for a large number of customers, integration across multiple channels, a focus on increasing the cost-effective use of resources, the evaluation of forecasts and other business trends, use of information technology to reduce the amount of manual work, business forecasting, real-time information, the use of optimization techniques, and high-level data analysis. In contrast, the rest of the participants noted general AI applications like the usage of AI-generated content creation, AI-driven product prices based on the consumers' behavior, personal language in checkouts, AI-powered messaging, and natural language processing software for message analysis and generation.

Furthermore, the fourth research objective is to comprehend the challenges and issues associated with the implementation of AI strategies on marketing efficiency. The respondents' diverse feedback unveiled several challenges and issues contingent on the implementation of AI strategies for marketing efficiency. These were the skills shortage and talent deficit in data science and AI technologies, data quality and privacy issues, integration challenges in the systems, issues regarding the acceptance and adoption of AI in organizations, the accountable use of the technologies, data, and cybersecurity perils, competency of the workforce, and costs and returns on investments. These challenges

include skills, data, integration, change management, ethics, security, people, costs, and automation/human blend. A minority of the participants discussed more specific issues, namely data quality and privacy, AI systems' integration, organizations' adaptation and adoption, adequate uses of AI and cognizance of its risks and limitations, data protection and cybersecurity threats and opportunities, workforce readiness, and potential overreliance on AI.

### CHAPTER V:

# DISCUSSION

# 5.1 Integration of Quantitative and Qualitative Findings

The current research assimilates quantitative and qualitative findings on the effect of AI marketing on sales funnel optimization and conversion efficiency. On the other hand, the quantitative data-analytically statistical provides a solid numerical basis. At the same time, the qualitative data enrich these findings by bringing in further depth from the experience and views of participants.

The quantitative analysis generated very key highlights on how AI is impacting marketing efficiency. Descriptive statistics show that, overall, participants regarded AI as a valuable tool for smoothing sales funnels, given that the mean values of items mainly were higher than 4.0 on a 5-point Likert scale. Reliability analysis confirmed measures to be consistent, with a Cronbach's Alpha of 0.641. Regression analyses further underscored the influence AI exerts in showing AI marketing explains 8.3 percent of the variance in terms of maximizing conversion efficiency. The fact that it is of significance statistically underlines the role of AI in improving specific marketing-related outcomes.

Thematic analysis of qualitative findings supported and supplemented these results. Indeed, many participants noted that AI helps in the use of GPRs for the creation of personalized content, executing predictive analytics, and facilitating real-time decision-making—all of which remain key to optimizing the sales funnel with the view of driving conversion rates up. For instance, AI-driven recommendation systems were found to be

effective in offering relevant products to consumers based on past behaviors and driving purchase decisions that elevate customer satisfaction. This is also consistent with the quantitative finding that AI strategies have a positive effect on conversion efficiency that is statistically significant. Moreover, the qualitative data resonated with how AI is applied and what benefits it brings to marketing.

Participants described AI's ability to automate routine tasks, allowing marketers to concentrate on strategic decision-making and creative tasks. The effectiveness in operations was also manifest in the quantitative data, with items about AI's role in optimizing sales funnels scoring highly. Besides, dynamic pricing and real-time interactions with customers were some of the ways participants indicated that AI is used in maintaining competitive pricing and improving customer engagement.

However, both datasets also showed difficulties connected with the implementation of AI. Quantitatively, the regression analysis showed that in all cases, even though AI had a positive impact, it is not going to be the sole predictor of marketing success but rather beckons toward a balanced approach that ropes in human watchfulness along with AI. The qualitative prominent concerns were data privacy, integration complexities, and specialized skills. The challenges these pose clearly show that while AI brings immense benefits, it requires meticulous management in its implementation and endless adaptation to the changing technological and market conditions. These findings point to a nuanced understanding of the nature of AI's influence on marketing.

At the same time, quantitative data provides discrete evidence regarding its effectiveness concerning metrics, qualitative insights underline mechanisms and

contextual factors driving such outcomes. This approach brings into focus that numerical data alone cannot help in appreciating the transformative capabilities of AI in marketing; it needs to be combined with human experience.

# **5.2 Implications for Practice**

The findings of this study are essential for marketing practitioners seeking to utilize AI in optimizing their sales funnels to improve conversion efficiency. The benefits of integrating AI technologies in marketing strategies include operational efficiency, customer targeting, and decision-making. Next are challenges that require careful management and strategic planning.

One of the significant implications is that marketers will have to involve AI in personalization and segmentation. The quantitative data revealed high mean values for items about the effect of AI on personalized marketing concerning the creation of tailored content and recommendation targeting. This is consistent with qualitative insights where participants noted the efficacy of AI in creating personalized consumer experiences through recommendation systems and dynamic pricing. Therefore, marketing practitioners need to engage in activities involving AI tools for analytics on customer data viz-à-viz creating personalized marketing messages to enhance engagement and conversion rates.

It also pinpoints the importance of real-time analytics in decision-making. As AI can now provide insights in real-time, marketers can adjust their strategies at whim on the go to meet changing market conditions and consumer behaviors.

This was evident in the high ratings for AI's role in real-time optimization and the tremendous positive effects observed in conversion efficiency. Practitioners should invest in AI platforms that have real-time analytics to constantly fine-tune and optimize marketing campaigns for the proper use of resources to ensure maximum returns. Finally, integrating AI within marketing operations also brings along a host of challenges about data privacy and quality and the requirement for specialized skills. Much of the qualitative data expressed concerns about data governance and the ethical usage of AI, which elaborate on the necessity of solid data management practices. One should, therefore, ensure that all their AI systems are compliant with the regulations on data protection and that they maintain high standards of data quality.

This involves stringent data governance frameworks and employee training in managing data and the ethical use of AI. This means that given the shortage of skilled professionals in AI and data science pinpointed in the study, investment by organizations in employee training and development is indispensable. The upskilling of a company's workforce toward building internal capabilities to deploy and manage AI technologies satisfactorily is very important. This includes continuous education and creating conditions for employees to be continuously updated about new developments in AI.

Another practical implication is that it calls for a balanced approach that marries human oversight with AI capabilities. After all, the regression analysis returned results indicating that in as much as AI has positive effects on marketing outcomes, it does not replace human intuition and creativity in their entirety. Finally, it points out that AI will make marketing operations more efficient and less expensive. Automation of routine tasks—things like lead scoring and email marketing—will save valuable time for the marketer to deal with other strategic activities. Operational efficiency from automation can engender cost savings and improve overall marketing performance. The advantages are about personalization, real-time decision-making, and operational efficiency. Challenges related to data quality and ethics issues come along with the requirement to develop specialized skills. A cautious strategic approach, in which the capabilities of AI will be harnessed coupled with human oversight, will thus allow the marketing practitioners to firmly capture the power of AI in driving better outcomes and sustainable competitive advantage.

# 5.3 Limitations of the Study

While this study provides several valuable insights into the effects of AI marketing on sales funnel optimization and conversion efficiency, it has several limitations that need to be addressed. A few fundamental limitations in this study may bring nongeneralizability of findings or further suggest areas likely to deal with such constraints in future research.

One major limitation of this study is the sample size and demographic diversity. This cannot be assumed to have represented the large population of marketing professionals or even industries. The demographic data proved that most participants were categorized in particular ages and professional roles; thus, the results cannot be generalized across sectors, geographic regions, or other factors considering these limitations (Creswell and Creswell, 2017). Future studies should, therefore, be based on a more prominent and more representative sample to enhance the generalizability of the results.

Another limitation is that data for the quantitative and qualitative components are based on self-reported data. Self-reported data may include several biases, such as social desirability bias, where participants answer according to what they think the experimenter wants them or expects of them rather than answering truthfully about their opinions or experiences (Braun and Clarke, 2006, pp. 77-104). This further opens the probability of bias toward how accurate the findings will be, especially in areas where the respondents feel compelled to report positive outcomes due to AI implementation. Objective measures of performance metrics that would be directly obtained from company records in future studies can help avoid this (Podsakoff et al., 2012).

Another limitation is that it had a cross-sectional study design. In addition, data was extracted at only one point, not allowing any changes or trends over time to be checked. Longitudinal studies are more representative of how AI marketing strategies evolve and their long-term impact on the optimization of sales funnels and conversion efficiency. It could provide insight into the sustainability of AI benefits and emerging challenges that marketers may face when continuing to integrate AI technologies into their practices (Yin, 2017).

Moreover, the research focuses and is directed on marketing professionals rather than assimilating the points of view of consumers, who are the final receivers in AI-driven marketing strategies. Such research would help understand consumer perceptions of AIdriven personalization and their corresponding privacy concerns, which would increase satisfaction with the technology, bringing into proper light the issues at stake related to the effectiveness and acceptance of these technologies (Rogers et al., 2019).

Another limitation is that technological development could very soon overtake the revelations of this study. AI and marketing technologies are a process of innovation, and new tools and methodologies could be developed, any of which might dramatically change everything. The outcome reported herein will be outdated when new capabilities of AI have been invented and diffused among marketers. We should keep researching to be updated on technological changes and further update knowledge of their impacts. The qualitative element of the current study is informed with depth but is restricted to that which can be addressed in individual interviews and by the potential bias of interviewers. While conducted systematically, thematic analysis is an interpretative process and, therefore, subject to various biases through researchers' views and experiences. Multiple coders to enhance these qualitative interpretations may credibly cross-check findings against other qualitative methods, like focus groups or ethnographic studies (Brynjolfsson and McAfee, 2014).

## **5.4 Future Research Directions**

Informed by the results and limitations of this study, future directions can be identified as such avenues that would further deepen the understanding of AI's impact on marketing to address some gaps this research pointed out.

Future research will primarily revolve around the longitudinal effects of AI implementation on marketing. Longitudinal research might further add value to how the

impact of AI has changed over time and, therefore, goes on to present long-term benefits and other challenges that might not have enough evidence in the cross-sectional studies. This helps in understanding the sustainability of AI-driven improvements in sales funnel optimization and conversion efficiency.

The researchers can decide on patterns and trends, which will contribute to a greater understanding of AI's role in marketing by following changes for an extended period.

Future studies also need to sample more extensive and more diverse samples. Increasing the demographic and geographic range of research participants would be able to extend the generalizability of the findings. Diverse samples will show how different industries, cultural contexts, and market conditions make a difference in how AI works for marketing purposes. As previously stated by Creswell and Creswell, 2017, this can offer a more complete view of the impact of AI and may pinpoint industry or regional best practices. The other key area of research that follows is the integration of consumer perspectives. Knowing how consumers perceive AI-driven marketing strategies, including their concerns regarding privacy and personalization, forms valuable information for marketers to take on board. Research targeted toward consumer attitude and behavior may help in designing AI strategies aimed at not only optimizing marketing outcomes but also engendering trust and satisfaction among consumers. It is through a consumer-centric approach that, ultimately, more efficient and ethical applications of AI can be developed.

Future research should more fully understand the ethical issues of AI in marketing. While technologies in AI continue to evolve, so too do the ethical considerations associated with their use. In particular, issues relating to data privacy, algorithm bias, and AI decision-making transparency are paramount and call for further critical study (Floridi et al., 2018).

It is, hence, the duty to investigate the frameworks and guidelines that ensure responsible and fair use of AI in marketing—giving organizations an upper hand in treading through the emerging ethical landscape while retaining consumer trust. Furthermore, a linkage between human and AI collaboration needs to be built for the same in marketing. While AI has manifold benefits in data processing and decisions related, a human intuition and creativity component is inevitable.

Future research could aim to develop models capable of optimizing the synergy between the human marketer and AI tools; best practices in integrating AI without diminishing the value brought by human experts could also be identified, as suggested by Davenport and Kirby. This study shall help develop balanced approaches that leverage the strengths of both humans and AI. Another auspicious avenue ahead is the evaluation of specific AI technologies and their eclectically contributing factors for marketing effectiveness. Different AI tools, such as machine learning algorithms, chatbots, and predictive analytics, have different abilities. Comparative studies that research the efficiency of technologies in different marketing contexts will, therefore, be reported in nuanced insight into which tools are most efficiently deployed under what conditions.

### CHAPTER VI:

## SUMMARY, IMPLICATIONS, AND RECOMMENDATIONS

### **6.1 Research Questions Summary**

This study intends to investigate how conversion efficiency can be maximized using AI marketing and sales funnel optimisation. This research also intends to examine the opportunities and challenges associated with the implementation of AI strategies on Marketing Efficiency. To fulfill this research aim, the study has adopted a mixed research approach allowing collection and analysis of both qualitative and quantitative data. A quantitative questionnaire survey was administered to sales personnel, marketing teams of several firms that have implemented AI, technology providers, and employees within the marketing cells of the firms. An interview survey was also conducted to analyse the advantages and opportunities connected with the application of AI strategies on marketing efficiency as well as the challenges associated with the same. This allowed gathering insights from marketing managers, higher management, technical managers, and customer relationship specialists.

From the demographic analysis, the study outlined that most of the respondents were aged 31-40 years with a male majority of 59%. About 27% of the respondents have 6-10 years of professional experience while 67% were graduates. Cronbach's Alpha is 0.641 for 27 items, showing strong internal consistency. This high value indicates that the items are highly correlated and measure the same underlying construct consistently. Thus, the scale is a reliable instrument for evaluating the planned construct. For investigating the impact of AI marketing on sales funnel optimisation, linear regression is employed

and through ANOVA it is indicated that AI marketing does not significantly predict sales funnel optimisation. This finding is in contrast of Haleem et al. (2022) who discussed how AI can assist marketers in selecting pertinent material that users desire to read. AI allows for the personalisation of material via observation, data collection, and analysis. This technique in digital marketing helps marketers with email advertising, enabling them to maximise outcomes. Sharma et al. (2023) also suggested that businesses that embrace AIpowered approaches may efficiently manage the intricacies of the modern market landscape, boosting innovation and increasing sales growth. The integration of AI into company operations has enormous promise for generating "innovation, efficiency, and growth" across a wide range of industries. AI provides innovative answers to longstanding challenges, like forecasting revenue, client service optimisation, manufacturing procedure improvement, and forecasting in B2B sales.

Secondly, the study found through linear regression that AI Marketing significantly influences Maximizing Conversion Efficiency. This finding is supported by Lopez (2023) who found that predictive analytics allows marketers to provide personalised offers and discounts based on client preferences, behaviour, and history of purchases. Using "customer data and predictive models, marketers can tailor offers to each customer, leading to higher engagement, loyalty, and conversion rates". Recommender systems use AI to analyse user preferences, behaviour, and interactions, providing personalised recommendations that increase interaction and conversion rates. Bag et al. (2022) suggest that a link between AI and social media involvement can improve conversion rates. The primary goal is to enhance conversion rates by engaging clients on

social networks. Using AI not only engages customers but also influences them to make spontaneous purchases. Social networking is an affordable marketing technique. The increased emphasis on AI and social networks has captivated customers and raised the amount of sales in the e-commerce sector. Conversion leads to higher average loyalty among consumers. Customers that are satisfied with a firm are likely to return for future purchases. Satisfaction levels determine consumers' desire to repurchase products. Palanivelu and Vasanthi (2020) outlined that marketing professionals cite several benefits, including "increased efficiency, time savings, and improved conversion rates, a better understanding of customer information, easier decision-making, higher ROI, insights, enhanced service, and customer satisfaction".

The qualitative analysis of the research outlined that AI can be helpful in designing advertisements, emails and social media posts. AI also help in the segmentation of the target audience and personalisation. In line with this finding, the study by Mogaji et al. (2020) suggests that AI can combine big data and marketing analytics from various sources in order to comprehend each customer. We will use this information to develop personalised, emotionally engaging commercials that will be spread online using pragmatic advertising tactics. Furthermore, Shumanov et al. (2022) discovered that, for the majority of personality types, congruent advertising messages and customer personality can result in more successful customer persuasion. Advertising efficacy for consumers with neurotic characteristics depends on reducing perceived risks during the purchasing process and offering indications for social acceptance and goal accomplishment. Additionally, extroverted consumers' purchasing behaviour was positively impacted by these traits. The study shows how congruence persuasive advertising and machine-inferred personality can be used to influence consumer behaviour. Murár and Kubovics (2023) suggested that AI can automate certain processes, such as data processing and analysis, freeing up marketers to concentrate on other crucial duties. The use of AI in advertising content generation can have several benefits, including objectivity, customisation, and speed and relevance. AI may help at several stages of the material creation process, like ideation, narrative development, and content personalisation. Target group data, including hobbies, purchase patterns, and demographic data, can be utilised by AI.

In response to the second research question the respondents provided that AI enhances customers' satisfaction via chatbots, virtual personal assistants, and recommendations that increase satisfaction and as a result, encourage repeat purchases and recommendations. Eshiett et al., (2024) discovered a strong correlation between consumer satisfaction and AI marketing. AI plays a significant part in marketing since it effectively satisfies client demands and wants and keeps staff engaged for the long term in the company. Venkateswaran et al. (2024) suggested that AI is changing how businesses approach and improve their customer loyalty initiatives because of its capacity to analyse large datasets, forecast customer behaviour, and provide personalised experiences. Yau et al. (2021) present the thoughtful application of the AIM framework, which was created based on the literature, to improve "customer relationships, including customer trust, satisfaction, commitment, engagement, and loyalty". Nwachukwu (2023) found a significant positive association values with repeat business and customer referrals

showing that AI personalisation significantly improves customer happiness. The findings also demonstrate a strong positive correlation between the recommendation system and client referrals and repeat business. According to the survey, businesses may enhance interactions with clients and offer prompt, pertinent support by implementing chatbots driven by artificial intelligence and other client engagement tools. Chatbots can help personalise support, automate repetitive client requests, and improve the customer experience in general. For smooth and consistent customer assistance, think about incorporating chatbots into different "websites, mobile apps, and social media channels".

In response to the third research question the study found that there are many advantages of AI strategies for enhancing marketing efficiency. The participants noted several ways in which the integration of AI strategies can open up more opportunities for organisations' marketing effectiveness. These were "business intelligence and data analysis at a high level, customisation for a large number of customers, integration across multiple channels, a focus on increasing the cost-effective use of resources, the evaluation of forecasts and other business trends, use of information technology to reduce the amount of manual work, business forecasting, real-time information, the use of optimisation techniques, and high-level data analysis". In line with these findings, Aron (2023) suggested that marketing professionals can become more efficient by using AI to automate time-consuming and repetitive operations. Additionally, it can offer perceptions of consumer behaviour and inclinations, enabling marketers to decide on their tactics with greater knowledge. AI can also be used to generate recommendations or emails that are specifically tailored to each recipient. AI may also be used to analyse customer data and

find trends and patterns, which helps marketers comprehend their target audience. Huang and Rust (2021) suggested that the most disruptive feature of AI is how it both enhances and replaces human intelligence. The capacity of contemporary thinking AI to personalise through automatic large data analysis is among its most innovative features. This makes it possible for marketing to target specific consumers with unprecedented precision. With the speed at which thinking AI is developing, it can now perform many of the thinking activities involved in marketing. When AI continues to advance, it will eventually even take over many of the emotional responsibilities in marketing. Wu and Monfort (2023) show that performance is impacted when an AI marketing approach is used. This study also demonstrates a favourable relationship between "productivity and market orientation, customer value co-creation, and marketing competencies". Ultimately, the findings demonstrate how market orientation, customer value co-creation, and marketing competencies influence the establishment of AI marketing strategies.

The fourth objective of the study seeks to identify challenges associated with the implementation of AI strategies on marketing efficiency. The identified challenges include "skills shortage and talent deficit in data science and AI technologies, data quality and privacy issues, integration challenges in the systems, issues regarding the acceptance and adoption of AI in organizations, the accountable use of the technologies, data, and cybersecurity perils, competency of the workforce, and costs and returns on investments". Makhlooq, AL Mubarak (2024) found that the future of AI marketing is bright however resolutions of the moral issues around bias and privacy are warranted. Hermann (2022) demonstrated how ethical values interact and sometimes clash when using AI in

marketing, depending on the relevant stakeholders. Benefits and non-maleficence in particular shouldn't be taken for granted, as the development of AI applications in marketing is anticipated to boost both individual and overall consumption. Razak (2023) recognised difficulties include the need for representative data quality and client privacy issues. AI analysis may result in biased or incorrect results if the data utilised is faulty or does not accurately reflect current market conditions or the diversity of customers. In addition to quality, the amount of data is also quite important. Insufficient data can result in a lack of diversity in the modelling process, which could make the findings less trustworthy and representative. Limitations in data can also make it more difficult for AI to identify intricate patterns or trends that may emerge seldom. Implementing AI-based solutions presents significant hurdles, one of which is managing the quantity and quality of data.

# **6.2 Implications**

This research aims to investigate how the integration of AI in marketing can improve customer conversion. The outcome of the study reaffirmed the role of AI in enhancing marketing efficiency and conversion of customers. Consequently, the implications of the study are far-reaching both from a theoretical and practical perspective. This section is dedicated to the discussion of these implications.

# **6.2.1 Theoretical Implications**

The present study has significantly advanced the current understanding of sales funnel optimisation using AI. The conventional theories associated with sales funnel

optimisation focus on manual approaches to manage and optimise the sales process. However, the rise of AI offers an alternative to this practice making it more data-driven and automated. This can benefit not just the organisation but the sales teams in the organisation as well. This implication finds support from Syam and Sharma (2018) who suggest that the Fourth Industrial Revolution has brought with it a greater use of machine learning (ML) and artificial intelligence (AI) algorithms and models that can mimic the buying center despite all of its complications and advise salespeople about what information to use. This enables salespeople to foresee possible risks and obstacles when interacting with the buying center. Hicham et al. (2023) discussed that AI offers a wide range of chances to improve the operations of material distribution, analysis, and generation. Using automation solutions has several benefits, one of which is its capacity to increase productivity and simplify tedious tasks. These resources can also be a great help when it comes to coming up with ideas, doing research, writing material, revising it, and optimising it. As a result, content producers can increase their efficiency and productivity, which will lead to the creation of higher-quality material.

The outcome of the study also provides support for the development of decisionmaking models for the sales funnel through AI. Furthermore, it can also help in the identification of crises within the organisation. This view is supported by Farrokhi et al. (2020) who found that knowledge gathered from a company's routine email exchanges and other data communications can help identify important occurrences connected to its operations. In general, critical events pose a hazard to an organisation and have the potential to spiral out of control if they are not identified in their early phases. Dwivedi et al. (2021) provided that with recent advancements in algorithmic machine learning and autonomous decision-making, the velocity of development in this new era of artificial intelligence technology is astounding and presents new chances for ongoing innovation.

Furthermore, the present research also bridges the gap between marketing theory and technology through a demonstration of the interdisciplinary nature of contemporary sales strategies. As the outcome of this research highlights that AI can be used for sales funnel optimisation, the study put forth a theoretical foundation for further exploration of technology-driven marketing practices. Grewal et al. (2020) support this view by outlining that the future of technology and marketing is the focus of this multidisciplinary special issue, which will encourage more research on the crucial topics covered in the seven papers and two comments that are featured. Working in multidisciplinary groups can help researchers tackling these issues handle complicated problems with the support of other interested parties, including government agencies, businesses, nonprofit organisations, and members of the industry. Furthermore, studies in these fields must determine the basic impacts of diverse technologies ("such as AI, robotics, the Internet of Things, sensors, and augmented technology") as well as provide an understanding of the underlying mechanisms that account for the behavioural effects of these technologies on users in a range of settings (such as retail, healthcare, and ride-sharing).

Lastly, the outcome of this research also challenges the traditional marketing theories that rely heavily on the intuition and experiences of an individual. This point is also supported by Grandinetti (2020) outlining that mass customisation is the common thread all scenarios where AI is used in marketing. To be more specific, these methods of mass customisation place the customisation process proper in a broader context of managing customers' demands, in contrast to the old approach, which emerged as a result of the third industrial revolution's technologies. This entails handling customers' uncertainties and partial ignorance of the issues at hand. Peyravi et al. (2020) verified that AI is used in a variety of marketing domains. The goal of the marketing AI solutions available today is to facilitate the transition to a more digital world by linking various levels, automating tasks, augmenting marketing efforts, and profiling. Examples of these tasks include CRM. The instruments are integrated with the current marketing endeavours to enhance competencies and mechanise assignments and objectives. Owing to the vast amount of data available, new analytical dimensions are possible. Detailed and optimal customer and environmental profiling is made possible by deep learning and tagging technologies.

# **6.2.2 Practical Implications**

The study also has various practical implications that can help practitioners enhance the efficiency of their marketing operations. The introduction of AI into sales funnel optimisation increases effective and precise lead generation, especially through generative AI. As Deveau et al. (2023) suggest generative AI outperforms traditional AIdriven lead detection and segmentation at the very top of the funnel, which relies on web scraping and basic prioritisation. The sophisticated algorithms of Gen AI can identify patterns in market and customer information to identify and target specific audiences. These features enable companies to quickly and effectively evaluate and identify highquality prospects, resulting in more successful, customised lead-activation campaigns. The top three use cases are all concentrated on lead generation and prospecting, areas in which there is a lot of early momentum. This is not surprising given the abundance of data about potential clients that can be analysed and the difficulty in tailoring early marketing efforts in the past. Sharma et al. (2023) provided that businesses can find profitable potential, improve resource allocation, and expedite their sales procedures by utilising AI-powered solutions for lead generation, lead scoring, and client segmentation. Additionally, AI-driven marketing enables companies to improve customer happiness and engagement by facilitating prompt and pertinent communications through a variety of digital platforms.

Secondly, by facilitating individualised interactions at scale, AI can dramatically increase customer engagement. AI systems have the ability to customise marketing messages and offer to individual tastes and needs by analysing client data and behaviour patterns. Kishen et al. (2021) stated that with the introduction of AI, technology has advanced, facilitating the synthesis and application of consumer insights at every touchpoint in the data-driven digital economy. The interaction between the retailer and the customer may be optimised with the use of AI. Customers anticipate a number of benefits from AI-powered retail solutions, including more convenient shopping, tailored promotions that are relevant to them, intelligent in-store features, and faster online order fulfilment. These characteristics are categorised into two factors: the physical structure of the retailer and the consumer management element. AI is essential for enhancing customer engagement through personalisation, consistent, proactive, real-time support, and easy self-service. For this, a range of artificial intelligence (AI) techniques are available, including voice assistants, chatbots, facial recognition, natural language processing, sentiment analysis, visual search, touchless kiosks, in-store robots, and facial recognition. This technology has a lot of promise, but organisations may run into problems putting it into practice because they lack the necessary infrastructure, capital, and personnel (Bansal et al. 2022).

Thirdly, the application of AI in sales funnel optimisation can assist organisations in refining their sales strategies. This finding is supported by Dilmegani (2024) who stated that AI helps to refine client data by utilising machine learning as a technique to transform unstructured data into information that can be used to efficiently target customers. Additionally, it aids businesses in maintaining long-term client data storage, which is crucial for figuring out consumer purchasing trends. Artificial Intelligence (AI) has the potential to improve sales methods through conversation mining, which analyses sales conversations to identify patterns and client moods. Survathi and Mariani (2023) suggested that businesses are realising more and more how revolutionary artificial intelligence can be in improving their marketing strategies. This change is an adoption of state-of-the-art technology and a proactive attempt to adjust to changing market conditions with the goal of achieving a more customised, reliable, and data-driven customer experience. Asha et al. (2024) indicated that by investigating the application of revenue prediction and sales forecasting capabilities, businesses can acquire invaluable insights into future trends, empowering them to make informed decisions and allocate resources efficiently. Businesses can use the segmentation of clients to pinpoint their intended audience and then apply marketing tactics that improve client retention and experience.

Lastly, AI-driven predictive analysis can help in accurate sales prediction and planning by analysing historical sales data and marketing trends. Lopez (2023) provided that marketers can obtain a greater understanding of consumer preferences, behaviour, and trends by utilising AI-powered technology and predictive analysis. This will help them tailor their campaigns, improve their effectiveness, and spur company expansion. An approach for supervised learning called linear regression is used to forecast an ongoing target variable using one or more input features. For activities like demand forecasting, price optimisation, and sales forecasting, marketers employ linear regression models. Vemulapalli (2024) discussed that organisations may foresee churn risks, prioritise interventions, and provide individualised experiences that appeal to consumers by utilising AI-driven predictive models and predictive analytics. This will ultimately lead to greater rates of retention and maximise the lifetime value of clients. Organisations will be able to identify churn signs as they arise and take proactive measures to stop defection because of the incorporation of real-time data sources and event-handling capabilities. Real-time churn identification and interventions will make use of automation and powered by AI predictive models to provide prompt, tailored solutions that instantly resolve client issues and strengthen loyalty.

### **6.3 Recommendations for Future Research**

AI technologies are quickly evolving and thus changing the business landscape quite rapidly. This means, that the studies that are being conducted on this subject are rapidly becoming outdated. To remedy this issue, future research should focus on conducting longitudinal research to gather information regarding the long-term impacts of AI integration on optimising sales funnels. This view is supported by Moinuddin et al. (2024) suggesting longitudinal research might look into how investments in analytics and AI affect key performance indicators for businesses, like market share and profitability. Kailio (2024) also supported longitudinal studies by stating that they can reveal the longterm effects of implementing AI.

Comparative studies can also be conducted across different sectors to get industryspecific insights regarding how AI-assisted sales funnel optimisation varies. Researchers can find industry-specific best practices and adapt AI tactics to various business situations by comparing findings across industries. Trivedi and Patel (2020) discussed that even while current AI technologies do not yet constitute "full" artificial intelligence, several sectors have already incorporated some form of AI into their daily operations. Organisations that are first to grasp the opportunities afforded by the application of artificial intelligence will rule the future. To use AI effectively, one must be aware of how it is developing and make advance preparations.

Future studies can explore how AI systems and humans can collaborate for decision-making and improve customer interaction. Paschen et al. (2021) described that AI and human intelligence have a great deal of potential to work together to maximise value across the B2B sales funnel. While hiring highly qualified salespeople is still very important, using AI at every stage of the sales process has the potential to be beneficial. Supervisors need to teach support employees and sales representatives how to use AI and understand data produced by the technology. Managers should combine AI-enabled

knowledge management initiatives with a B2B company's enterprise knowledge management plans and techniques in order to optimize the advantages.

The case of AI in sales brings up several ethical questions, two of which are explain ability/literacy (using AI outputs in routine work procedures) and invisible actors (training data). More research and analysis are needed on these problems, as well as the larger ethical context of intelligent sales. This note is meant to serve as a beginning point, bringing up certain issues that are emerging in AI applications in enterprise settings in order to spark additional discussion within the CSCW community about the fairness, accountability, and transparency of algorithmic systems (Wolf, 2020). Singh et al. (2019) encouraged studies on the moral ramifications of value generation and sales communication using AI. Future research may elaborate on the premise that AI could genuinely increase the value provided by representatives, but it may also be utilised to transfer value from customers to suppliers ("e.g., AI-powered dynamic pricing") or produce an impression of value using targeted influence methods. Therefore, it is critical to conduct research on the ethical and social ramifications of utilising AI to optimise sales funnels. Future research should investigate issues of data privacy, algorithmic prejudice, and the potential influence on employment in sales roles.

Getting insights about what customers want is increasingly hard for the sales team as more and more shopping is taking place through online channels. To remedy these issues, future research can focus on getting deep insights into how AI can generate more actionable customer insights. Dinana (2019) supported this point by outlining that the latest buzzword in marketing is customer insights, which must be produced through the

application of "machine learning, artificial intelligence, performance analytics, content management, and user experience management". Sales management will become insightdriven in the years to come and be based on a strong base of expertise, data, and knowledge. Better knowledge of relationships, trends, and management guidelines for all process participants—including the sales staff and customers of the digital age—is made possible by this. Ma and Sun (2020) outlined that in order to address new substantive concerns in the industry, gain a deeper understanding of businesses and consumers, and create scaled and computerised decision support capacities that will be indispensable to company managers, it is vital to take advantage of the rich digital information available. From all of these angles, machine learning techniques have a lot of promise for assisting in the resolution of significant scientific problems. Because marketing research and machine learning have distinct goals, it might be difficult to integrate machine learning techniques into marketing research effectively. The benefits, however, are numerous, and the potential gains from effectively utilising these techniques more than offset the work necessary to overcome the difficulties.

Lastly, AI can also be integrated with other emerging technologies like the Internet of Things (IoT), augmented reality (AR) and block chain for effective optimisation of the sales funnel. This insight is supported by Rane et al. (2024) suggesting that personalisation efforts could be improved by combining AI with other cutting-edge technologies like blockchain and the Internet of Things (IoT). IoT devices produce a plethora of data about consumer preferences and behaviours, allowing for ever more accurate profiles of customers. In contrast, the use of blockchain offers a transparent and safe way to manage client data, resolving security and privacy issues related to AI-driven personalisation. Núñez, (2021) suggested that while automation and personalisation are the main uses of AI, it may also be used to create digital content, adapt prices based on geography or season, and interact with clients via chatbots. But when paired with additional technologies, it really shines, enhancing the immersive experience and improving the user experience. Future studies may focus on using AI—which is already being investigated in conjunction with facial recognition software and natural language processing—to better comprehend human behavior. Therefore future studies should focus on integrating AI with other emerging technologies to make AI more effective.

### **6.4 Conclusion**

This study investigated how AI marketing can be used for sales funnel optimisation and conversion efficiency maximisation. AI provides effective solutions for each stage of the sales process. Thus far, artificial intelligence has primarily been employed to replace regular activities with restricted intelligence. On the other hand, we may name applications that now utilise general intelligence. For example, AI programs can support salespeople by interpreting human emotions (Fischer et al., 2022). The growing use of AI in several fields indicates that every person involved in sales and marketing needs to become familiar with its capabilities. We can fairly state that AI is not a substitute for sales and marketing professionals; rather, it is an instrument in their arsenal to make their tasks easier and more productive. Despite the impression that AI can perform any task, it still needs human input to feed the data and refine the algorithms (Neeli, 2020, p.1).

The major finding of the study includes the fact that AI marketing significantly maximises sales funnel conversion efficiency. Van Esch and Stewart Black (2021) also found that the manner in which businesses develop material for advertising, generate leads, lower the cost of acquiring customers, manage customer experiences, sell themselves to potential employees, and transform their accessible consumer base via social media is being revolutionized by AI-enabled digital marketing. The research's qualitative analysis revealed that AI can be useful for creating emails, social media posts, and ads. This can help organizations in completing creative tasks. Modern marketing is seeing a sea change thanks to generative artificial intelligence (GenAI), which offers previously unheard-of creativity and effectiveness. With capabilities ranging from realtime customization to predictive analytics, consumer behavior patterning and customized content generation, GenAI enables marketers to create custom strategies that are suited to specific requirements (Jain et al., 2024, pp.134-150). When it comes to Personalisation, AI is used in Content Creation to create engaging advertising content. Meanwhile, Ad optimisation makes adjustments to ad displays based on the results of the previous three aspects in order to maximise return on investment (Gao et al., 2023).

The study also outlined that through chatbots, virtual personal assistants, and recommendations that raise customer satisfaction and, consequently, encourage repeat business and recommendations, AI improves consumer satisfaction. AI-driven customer care platforms, such as chatbots and virtual assistants, have simplified consumer interactions by offering 24-hour assistance and swiftly answering questions. Businesses may manage resources more efficiently and guarantee quicker responses and improved

customer satisfaction rates by automation in routine inquiries and tasks (Madhuri et al., 2024, pp.8509-8516). The present research further outlined that there are advantages of AI strategies for improving marketing efficiency. AI technology is used for more precise marketing campaigns than traditional marketing. The marketing impact will become more precise and tailored as a result. In light of these technical advancements, it is crucial to research how AI technology might be used in the specific new marketing strategy. The development of AI technology has not only altered marketing strategies but has also made it possible for advertisers to draw in customers more successfully (Yang, 2021, pp.157-170). Organisations can make proactive decisions by utilising predictive analytics to foresee trends and changes. AI gives marketers the tools they need to improve productivity, personalise content, and make data-driven decisions, which boosts ROI and effectiveness in marketing. By analysing individual consumer data, machine learning algorithms allow companies to build hyper-personalised services that boost customer engagement and loyalty (Umamaheswari, 2024, pp.1589-1599).

This study concludes by highlighting the enormous potential of AI to transform sales funnel optimisation. Businesses may create more effective, individualized, and efficient sales processes by using AI in their sales tactics, which will eventually increase performance and provide them with a competitive edge. As the capabilities of AI are increasing day by day, it will emerge as a major enabler in the field of marketing and sales. can ensure that the marketing and sales process runs smoothly and efficiently. Finally, the study discussed the future direction of research where numerous avenues for the studies are discussed out of which a need for longitudinal studies is most prominent. This is important because AI is still an evolving technology and becoming more and more capable as time passes. Future research can now expand and further explore the function of AI in sales and marketing thanks to the theoretical and practical insights this study has supplied.

### APPENDIX A:

### SURVEY COVER LETTER

My name is Praveen Madhu, and I am currently researching the 'Maximizing Conversion Efficiency: Exploring the Impact of AI Marketing on Sales Funnel Optimization.' Several studies have highlighted that AI has affected the sales funnel. Throughout the whole sales cycle, human judgment continues to be a vital aspect. Salespeople must not only interact and establish relationships with prospective customers but also keep an eye on and evaluate the outcomes of ML. The integration of AI Marketing in the optimization of the sales funnel and thereby enhancement of conversion efficiency comes with a range of challenges. My research focuses on ascertaining the effectiveness by which the AI marketing approaches are used for efficient conversion and sales funnel optimization. Your participation in this survey is invaluable and will contribute significantly to understanding and addressing these challenges.

Please be assured that all your responses will be kept completely confidential. The data collected will be used solely for academic research purposes and will remain anonymous. No personal identifiers, such as names, email addresses, or company names, will be disclosed in any part of the study.

This survey is targeted to Marketers (past or present), Managers and Leaders (who are anchoring the marketing portfolio).

Thank you for your time and valuable insights.

Sincerely, Praveen Madhu

## APPENDIX B: INFORMED CONSENT

Title of Study: Maximizing Conversion Efficiency: Exploring the Impact of AI Marketing on Sales Funnel Optimization

Researcher: Praveen Madhu Holenarsipur

You are invited to participate in a research study conducted by Praveen Madhu Holenarsipur, a student at SSBM, as part of Global Doctor of Business Administration. The purpose of this study is to study the impact of AI marketing (AIM) on sales funnel optimization.

Procedures: If you agree to participate, you will be asked to be involved in, interviews, and surveys. Participation is voluntary, and you may withdraw at any time without penalty.

Risks and Benefits: There are no anticipated risks beyond those of everyday life. Benefits of participating include contributing to academic research and potentially gaining insights into the impact of AI in marketing.

Confidentiality: Your identity and responses will be kept strictly confidential. Data will be stored securely and only accessible to the researcher and authorized personnel. Your name will not be used in any reports or publications resulting from this study.

Voluntary Participation: Participation in this study is entirely voluntary. You may refuse to participate or withdraw at any time without penalty.

Contact Information: If you have any questions about the study or your rights as a participant, please contact Praveen Madhu at praveenmadhu1@gmail.com. If you have any concerns about the study and wish to contact someone other than the researcher, you may contact Dr. Anna Provodnikova at SSBM.

Consent:

By agreeing to participate in this study, you acknowledge that you have read and understood the information provided in this consent form. You voluntarily agree to participate in the study under the terms described.

Participant Signature:	Date:
	_
Researcher Signature:	Date:

#### APPENDIX C:

### INTERVIEW GUIDE

Thank you for participating in this interview. The purpose of this study is to explore the impact of AI Marketing on Sales Funnel Optimization and maximizing Conversion Efficiency. Your insights are invaluable in understanding these dynamics. Your responses will be kept confidential and anonymous.

Title: Qualitative questionnaire Topic: Maximizing Conversion Efficiency: Exploring the Impact of AI Marketing on Sales Funnel Optimization

# Research Objective 1: To identify the impact of AI Marketing on Sales Funnel Optimization

1. What are the ways in which according to you, the incorporation of AI may contribute in initiatives associated with creating awareness, interest and desire among potential consumers regarding the product or services among the potential consumers?

2. How is the incorporation of AI in marketing going to impact the process or segmentation and personalization of product or service related marketing initiatives?

3. How is the implementation of AI in marketing going to effect the decision making process in the marketing phase, regarding the ways of promoting the product or services?

Research Objective 2: To assess the influence of AI Marketing on maximizing Conversion Efficiency. 3. In your opinion, what are the potential impacts of incorporating AI on conversion and retention of customers for the service providers or producers?

4. With implementation of AI Marketing and optimizing campaigns based on real-time insights, would there be an impact on Conversion Efficiency? If yes, kindly explain.

# Research Objective: To comprehend the benefits and opportunities associated with the implementation of AI strategies on Marketing Efficiency

5. What according to you, are the potential benefits associated with the implementation of AI strategies on marketing efficiency?

6. How is the incorporation of AI strategies going to pave the path for further opportunities for organization's marketing efficiency?

# Research Objective 4: To comprehend the challenges and issues associated with the implementation of AI strategies on Marketing Efficiency.

7. What in your opinion are the challenges and issues regarded to the implementation of AI strategies on marketing efficiency?

8. What are the ways in which, the mentioned challenges and issues related to the implementation of AI strategies on marketing efficiency can be resolved by organizations?

Is there anything else you would like to add that we haven't discussed? Your perspectives are valuable in advancing our understanding of AI Marketing's impact on Sales Funnel Optimization and Conversion Efficiency. If you have any further questions or would like to receive a summary of the findings from this study, please feel free to contact Praveen Madhu at praveenmadhu1@gmail.com.

### APPENDIX D: QUESTIONNAIRE

This questionnaire is developed to collect pertinent data from marketing managers, higher management, technical managers, customer relationship specialists, sales personnel, marketing teams, technology providers and employees within the marketing cells of the firms that have employed AI in their marketing operations regarding how AI marketing can be used for sales funnel optimisation. The Questionnaire given below is a tool chosen for collecting data for the research project titled "Maximizing Conversion Efficiency: Exploring the Impact of AI Marketing on Sales Funnel Optimisation". The participants are requested to respond attentively to all of the below-mentioned questions. The respondents are assured that the information they provide will be used for research purposes only and will be kept confidential and un-identifiable to an individual or organization.

## **Part A: Demographic Information**

Please select one appropriate option in the below-mentioned questions.

- 1. Age (in Years)
  - a. 18-30
  - b. 31-40
  - c. 41-50
  - d. 51-60

e. 60 and above

2. Gender

- a. Male
- b. Female
- c. None-Binary
- d. Prefer not to disclose
- 3. Educational Qualification:
  - a. High School or Equivalent
  - b. Diploma
  - c. Graduate
  - d. Post Graduate
  - e. Doctorate or Equivalent
- 4. Years of Professional Experience
  - a. 0-5 years
  - b. 6-10 years
  - c. 11-15 years
  - d. 16-20 years
  - e. 21-25 years

f. More Than 25 years

5. Marital Status

- a. Married
- b. Unmarried
- c. Divorced

6. I am a:

□ Marketing Manager

□ Higher Management

□ Technical Managers

Customer Relationship Specialists

□ Sales Personnel

☐ Technology Providers and Employees

□ Other (Please Specify)

# Part B: AI Marketing

On a scale of 1-5, please indicate the degree to which you agree to the statements given below based on your experience. (SD = Strongly Disagree, D = Disagree, N = Neither Agree nor Disagree, A = Agree, SA = Strongly Agree)

Statements	SD	D	Ν	А	SA
1. AI marketing helps the organisation in personalising customer interactions quite effectively.					
2. AI marketing techniques enable the organisation to segment the customers in an effective manner.					
3. The use of AI in marketing has streamlined our sales funnel, making it more efficient from lead generation to conversation.					
4. The sales conversion rate increases due to the AI marketing process.					
5. The lead generation process of the organisation is significantly improved after the adoption of AI					

# **Part C: Sales Funnel Optimization**

On a scale of 1-5, please indicate the degree to which you agree to the statements given below based on your experience. (SD = Strongly Disagree, D = Disagree, N = Neither Agree nor Disagree, A = Agree, SA = Strongly Agree)

	Statements	SD	D	Ν	Α	SA
6.	The organisation take into consideration the customer's entire journey from awareness to purchase while designing the sales funnel.					
7.	The organisation has successfully optimised its sales funnel for improvement of the conversion rate of the customers.					
8.	The organisation effectively use data and					

analytics for the optimisation of the sales funnel process.			
9. The lead qualification process within the sales funnel is quite efficient.			
10. The organisation has ensured that the stages of the sales funnel are clearly understood and defied.			

# **Part D: Maximising Conversion Efficiency**

On a scale of 1-5, please indicate the degree to which you agree to the statements given below based on your experience. (SD = Strongly Disagree, D = Disagree, N = Neither Agree nor Disagree, A = Agree, SA = Strongly Agree)

Statements	SD	D	Ν	Α	SA
11. The organisation regularly review and improves its conversation tactics for ensuring maximum efficiency.					
12. The organisation has optimised their processes to ensure a smooth and efficient transfer from lead to customer.					
13. Personalisation of customer interaction helps the organisation in enhancing conversion efficiency.					
14. We effectively implement the available resources for increasing the conversion rates.					
15. The current strategies implemented by the organisation for converting leads to customers are highly effective.					

**Part E: Marketing Efficiency** 

On a scale of 1-5, please indicate the degree to which you agree to the statements given below based on your experience. (SD = Strongly Disagree, D = Disagree, N = Neither Agree nor Disagree, A = Agree, SA = Strongly Agree)

Statements	SD	D	Ν	Α	SA
16. The organisation is ensuring that marketing resources (budget, personnel, etc) are used to achieve its goals.					
17. The marketing efforts of the organisation ensure that it reaches the target audience.					
18. The organisation has a higher percentage of conversions.					
19. The marketing campaign of the organisation maintains a high return on investment.					
20. The organisation utilise different marketing channels to ensure maximum reach and impact.					

# Part F: Benefits and Opportunities Associated with the Implementation of AI strategies

On a scale of 1-5, please indicate the degree to which you agree to the statements given below based on your experience. (SD = Strongly Disagree, D = Disagree, N = Neither

Agree nor Disagree, A = Agree, SA = Strongly Agree)

Statements	SD	D	Ν	Α	SA
21. The use of AI has opened new opportunities for scalability and business					

growth for the organisation.			
22. The use of AI has provided the organisation with deeper insights into customer behaviour and preferences.			
23. The organisation enjoys a competitive advantage due to the use of AI strategies.			
24. AI strategies have enhanced the operational efficiency of the organisation.			
25. The implementation of AI strategies has led to improved decision-making in the organisation.			

# Part G: Challenges in the Implementation of AI Strategies

On a scale of 1-5, please indicate the degree to which you agree to the statements given

below based on your experience. (SD = Strongly Disagree, D = Disagree, N = Neither

Agree nor Disagree, A = Agree, SA = Strongly Agree)

Statements	SD	D	Ν	А	SA
26. The integration of AI strategies within the existing systems of the company is quite challenging.					
27. The cost associated with integrating AI strategies is a major barrier for the company.					
28. The company lacks the necessary skills and expertise for the implementation of AI strategies.					
29. The organisation face challenges with the quality and availability of data required for effective AI implementation.					

30. The technical know-how required for the implementation of AI strategies is a major			
challenge for our company.			

#### REFERENCES

Ailawadi, K.L., Neslin, S.A. and Gedenk, K. (2001) 'Pursuing the value-conscious consumer: store brands versus national brand promotions'. Journal of Marketing, 65(1), pp. 71-89.

Aksoy, L., Buoye, A., Cooil, B., Keiningham, T.L., Paul, D. and Volinsky, C. (2011) 'Can we talk? The impact of willingness to recommend on a new-to-market service brand extension within a social network'. Journal of Service Research, 14(3), pp. 355-371.

Araujo, T., Helberger, N., Kruikemeier, S. and De Vreese, C.H. (2020) 'In AI we trust? Perceptions about automated decision-making by artificial intelligence'. AI and Society, 35(3), pp. 611-623.

Akter, S., Dwivedi, Y.K., Sajib, S., Biswas, K., Bandara, R.J. and Michael, K. (2022) 'Algorithmic bias in machine learning-based marketing models'. Journal of Business Research, 144, pp. 201-216.

Arasu, B.S., Seelan, B.J.B. and Thamaraiselvan, N. (2020) 'A machine learningbased approach to enhancing social media marketing'. Computers and Electrical Engineering, 86, p. 106723.

Amarasinghe, H. (2023) 'Transformative power of AI in customer relationship management (CRM): Potential benefits, pitfalls, and best practices for modern enterprises'. International Journal of Social Analytics, 8(8), pp. 1-10.

Akhtar, S., Shah, S.W.A., Rafiq, M. and Khan, A. (2016) 'Research design and statistical methods in Pakistan Journal of Medical Sciences (PJMS)'. Pakistan Journal of Medical Sciences, 32(1), p. 151.

Asad, M.M., Hassan, R.B., Sherwani, F., Abbas, Z., Shahbaz, M.S. and Soomro, Q.M. (2019) 'Identification of effective safety risk mitigating factors for well control drilling operation: An explanatory research approach'. Journal of Engineering, Design and Technology, 17(1), pp. 218-229. Aguirre, E., Mahr, D., Grewal, D., De Ruyter, K. and Wetzels, M. (2015) 'Unraveling the personalization paradox: The effect of information collection and trust-building strategies on online advertisement effectiveness'. Journal of Retailing, 91(1), pp. 34-49. Available at: <u>https://doi.org/10.1016/j.jretai.2014.09.005</u> [Accessed 2 July 2024].

Asha, P., Sujihelen, L., Suresh, L.P. and Praveen, S. (2024, April) 'Unleashing business growth potential through advanced analytics and predictive model driven by artificial intelligence'. In: 2024 International Conference on Science Technology Engineering and Management (ICSTEM), pp. 1-7. IEEE.

Bag, S., Srivastava, G., Bashir, M.M.A., Kumari, S., Giannakis, M. and Chowdhury,
A.H. (2022) 'Journey of customers in this digital era: Understanding the role of artificial intelligence technologies in user engagement and conversion'.
Benchmarking: An International Journal, 29(7), pp. 2074-2098.

Bansal, R., Pruthi, N. and Singh, R. (2022) 'Developing customer engagement through artificial intelligence tools: Roles and challenges'. In: Developing Relationships, Personalization, and Data Herald in Marketing 5.0, pp. 130-145. IGI Global.

Braun, V. and Clarke, V. (2006) 'Using thematic analysis in psychology'. Qualitative Research in Psychology, 3(2), pp. 77-101. Available at: https://doi.org/10.1191/1478088706qp063oa [Accessed 2 July 2024].

Brynjolfsson, E. and McAfee, A. (2014) The second machine age: Work, progress, and prosperity in a time of brilliant technologies. WW Norton and Company.

Barragán-Landy, M., Sousa, S., Romero, F. and Leão, C. (2020, June) 'A proposed representative sampling methodology'. In: 20th European Conference on Research Methodology for Business and Management Studies: ECRM, p. 8.

Benadè, G., Gölz, P. and Procaccia, A.D. (2019, June) 'No stratification without representation'. In: Proceedings of the 2019 ACM Conference on Economics and Computation, pp. 281-314.

Bhuvaneswari, L., Subadra, S. and Salma Shajahan, D.C. (2024) 'The impact of artificial intelligence (AI) on digital marketing'. Migration Letters, 21(S6), pp. 1132-1142.

Boukhari, M. (2021) 'The impact of artificial intelligence on the B2B sales funnel'. [Online] Available at: <u>https://www.theseus.fi/handle/10024/507940</u> [Accessed 11 July 2024].

Bag, S., Wood, L.C., Mangla, S.K., Luthra, S., Huisingh, D. and Sohal, A. (2020)'Business-to-business marketing and supply chain management: Converging paradigms'. Industrial Marketing Management, 91, pp. 77-91.

Balducci, B. and Marinova, D. (2018) 'Unstructured data in marketing'. Journal of the Academy of Marketing Science, 46, pp. 557-590.

Benlian, A., Klumpe, J. and Hinz, O. (2019) 'Mitigating the intrusiveness of sponsored recommendations: A field experiment on digital news platforms'. Journal of Management Information Systems, 36(4), pp. 1027-1058.

Berry, M.J.A. and Linoff, G.S. (2004) Data mining techniques: For marketing, sales, and customer relationship management. 2nd ed. Indianapolis: Wiley Publishing.

Brynjolfsson, E. and McAfee, A. (2017) 'The business of artificial intelligence'. Harvard Business Review, 95(4), pp. 3-11.

Bharadiya, J.P. (2023) 'Machine learning and AI in business intelligence: Trends and opportunities'. International Journal of Computer (IJC), 48(1), pp. 123-134.

Campbell, S., Greenwood, M., Prior, S., Shearer, T., Walkem, K., Young, S. and Walker, K. (2020) 'Purposive sampling: Complex or simple? Research case examples'. Journal of Research in Nursing, 25(8), pp. 652-661.

Chenail, R.J. (2011) 'Interviewing the investigator: Strategies for addressing instrumentation and researcher bias concerns in qualitative research'. Qualitative Report, 16(1), pp. 255-262.

Creswell, J.W. and Creswell, J.D. (2017) Research design: Qualitative, quantitative, and mixed methods approaches. Sage Publications.

Castiglioni, I. et al. (2021) 'AI applications to medical images: From machine learning to deep learning'. Physica Medica, 83, pp. 9-24.

Chaffey, D. and Ellis-Chadwick, F. (2019) Digital marketing: Strategy, implementation, and practice. 7th ed. Harlow: Pearson.

Chandy, R.K., Johar, G.V., Moorman, C. and Roberts, J.H. (2021) 'Better marketing for a better world'. Journal of Marketing, 85(3), pp. 1-9.

Chen, H., Chiang, R.H. and Storey, V.C. (2012) 'Business intelligence and analytics: From big data to big impact'. MIS Quarterly, pp. 1165-1188.

Chiang, I.P., Lin, C.W. and Chen, H.S. (2017) 'Exploring the technology acceptance model through Facebook's impact on sales promotion strategy'. Journal of Management and Marketing Research, 21, pp. 1-9.

Cui, G., Wong, M.L. and Lui, H.K. (2006) 'Machine learning for direct marketing response models: Bayesian networks with evolutionary programming'. Management Science, 52(4), pp. 597-612.

Chen, A., Zhang, X. and Zhou, Z. (2020) 'Machine learning: Accelerating materials development for energy storage and conversion'. InfoMat, 2(3), pp. 553-576.

Canhoto, A.I. and Clear, F. (2020) 'Artificial intelligence and machine learning as business tools: A framework for diagnosing value destruction potential'. Business Horizons, 63(2), pp. 183-193.

Chowdhary, K. and Chowdhary, K.R. (2020) 'Natural language processing'. In: Fundamentals of artificial intelligence, pp. 603-649. Davenport, T.H. and Kirby, J. (2016) *Only humans need apply: Winners and losers in the age of smart machines*. New York: Harper Business.

Dai, H. and Sternthal, B. (2004) 'The effect of order of exposure on ad repetition effects: The moderating role of ad quality', *Journal of Marketing Research*, 41(3), pp. 380-388.

Davenport, T.H. and Ronanki, R. (2018) 'Artificial intelligence for the real world', *Harvard Business Review*, 96(1), pp. 108-116.

De Bruyn, A., Viswanathan, V. and Zhang, H. (2019) 'Artificial intelligence in marketing: Converting hype into reality', *Journal of Business Research*, 105, pp. 84-89.

Deveau, R., Griffin, S.J. and Reis, S. (2023) 'AI-powered marketing and sales reach new heights with generative AI', *McKinsey*. Available at: https://www.mckinsey.com/capabilities/growth-marketing-and-sales/our-insights/ai-

powered-marketing-and-sales-reach-new-heights-with-generative-ai [Accessed 4 July 2024].

Dinana, H. (2019) 'Insights-driven sales management'. In: *Modern perspectives in business applications*.

Dwivedi, Y.K. et al. (2021) 'Artificial intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, and agenda for research, practice and policy', *International Journal of Information Management*, 57, p. 101994.

Eshiett, I.O. and Eshiett, O.E. (2024) 'Artificial intelligence marketing and customer satisfaction: An employee job security threat review', *World Journal of Advanced Research and Reviews*, 21(1), pp. 446-456.

Elia, G., Margherita, A., Passiante, G. and Capone, F. (2020) 'Digital innovation: Challenges and opportunities for entrepreneurs and businesses', *Journal of Business Research*, 114, pp. 249-258. Ebrahimi, P. et al. (2022) 'Social networks marketing and consumer purchase behavior: The combination of SEM and unsupervised machine learning approaches', *Big Data and Cognitive Computing*, 6(2), p. 35.

Floridi, L. et al. (2018) 'AI4People—An ethical framework for a good AI society: Opportunities, risks, principles, and recommendations', *Minds and Machines*, 28(4), pp. 689-707. Available at: <u>https://doi.org/10.1007/s11023-018-9482-5</u> [Accessed 18 June 2024].

Farrokhi, A., Shirazi, F., Hajli, N. and Tajvidi, M. (2020) 'Using artificial intelligence to detect crisis related to events: Decision making in B2B by artificial intelligence', *Industrial Marketing Management*, 91, pp. 257-273.

Fischer, H., Seidenstricker, S., Berger, T. and Holopainen, T. (2022) 'Artificial intelligence in B2B sales: Impact on the sales process', *Artificial Intelligence and Social Computing*, 28(28).

Gao, B. et al. (2023) 'Artificial intelligence in advertising: Advancements, challenges, and ethical considerations in targeting, personalization, content creation, and ad optimization', *Sage Open*, 13(4), p. 21582440231210759.

Grandinetti, R. (2020) 'How artificial intelligence can change the core of marketing theory', *Innovative Marketing*, 16(2), pp. 91-103.

Grewal, D., Hulland, J., Kopalle, P.K. and Karahanna, E. (2020) 'The future of technology and marketing: A multidisciplinary perspective', *Journal of the Academy of Marketing Science*, 48, pp. 1-8.

Guest, G., MacQueen, K.M. and Namey, E.E. (2012) *Applied thematic analysis*. Thousand Oaks, CA: Sage.

Gensler, S. et al. (2015) 'Listen to your customers: Insights into brand image using online consumer-generated product reviews', *International Journal of Electronic Commerce*, 20(1), pp. 112-141.

Gopalakrishnan, M., Libai, B., Biyalogorsky, E. and Rajan, B. (2020) 'Predicting customer churn in subscription-based settings using ensemble learning techniques', *Journal of Marketing Analytics*, 8(1), pp. 34-48.

Grewal, D., Roggeveen, A.L. and Nordfält, J. (2017) 'The future of retailing', *Journal of Retailing*, 93(1), pp. 1-6.

Guha, S., Harrigan, P. and Soutar, G. (2018) 'Linking social media to customer relationship management (CRM): A qualitative study on SMEs', *Journal of Small Business and Entrepreneurship*, 30(3), pp. 193-214.

Gursoy, D., Chi, C.G., Lu, L. and Nunkoo, R. (2019) 'Consumers' acceptance of artificially intelligent (AI) device use in service delivery', *International Journal of Information Management*, 49, pp. 157-169.

Galitsky, B. (2020) Artificial intelligence for customer relationship management.
Cham: Springer International Publishing. Available at: <u>https://doi.org/10.1007/978-</u> <u>3-030-52167-7</u> [Accessed 2 August 2024].

Haleem, A. et al. (2022) 'Artificial intelligence (AI) applications for marketing: A literature-based study', *International Journal of Intelligent Networks*, 3, pp. 119-132.

Hermann, E. (2022) 'Leveraging artificial intelligence in marketing for social good— An ethical perspective', *Journal of Business Ethics*, 179(1), pp. 43-61.

Hicham, N., Nassera, H. and Karim, S. (2023) 'Strategic framework for leveraging artificial intelligence in future marketing decision-making', *Journal of Intelligent Management Decision*, 2(3), pp. 139-150.

Huang, M.H. and Rust, R.T. (2021) 'A strategic framework for artificial intelligence in marketing', *Journal of the Academy of Marketing Science*, 49, pp. 30-50.

Hosanagar, K. and Sultan, F. (2020) 'The impact of algorithms on marketing', *Journal of Marketing*, 84(2), pp. 64-85.

Husnain, A., Hussain, H.K., Shahroz, H.M., Ali, M., Gill, A. and Rasool, S. (2024) 'Exploring AI and machine learning applications in tackling COVID-19 challenges', *Revista Espanola de Documentacion Científica*, 18(02), pp. 19-40.

Huang, M.H. and Rust, R.T. (2018) 'Artificial intelligence in service', *Journal of Service Research*, 21(2), pp. 155-172.

Jarek, K. and Mazurek, G. (2019) 'Marketing and artificial intelligence', *Central European Business Review*, 8(2), pp. 46-55.

Jia, M., Wang, H., Lin, X., Li, X. and Zhang, W. (2018) 'Optimizing marketing decisions for targeting and customization with artificial intelligence', *Journal of Marketing Analytics*, 6(1), pp. 10-25.

Jordan, M.I. and Mitchell, T.M. (2015) 'Machine learning: Trends, perspectives, and prospects', *Science*, 349(6245), pp. 255-260.

Jain, P., Jain, P. and Jain, A. (2024) 'Marketing's crystal ball: Where we are and where we could soon be with generative artificial intelligence in marketing', *Journal of Cultural Marketing Strategy*, 8(2), pp. 134-150.

Kim, H., Sefcik, J.S. and Bradway, C. (2017) 'Characteristics of qualitative descriptive studies: A systematic review', *Research in Nursing and Health*, 40(1), pp. 23-42.

Kailio, S. (2024) AI in the B2B sales process of international SMEs.

Kishen, R., Upadhyay, S., Jaimon, F., Suresh, S., Kozlova, N., Bozhuk, S., Mottaeva, A.B., Barykin, S.Y. and Matchinov, V.A. (2021) 'Prospects for artificial intelligence implementation to design personalized customer engagement strategies', *Pt. 2 J. Legal Ethical and Regul. Issues*, 24, p. 1.

Kietzmann, J., Paschen, J. and Treen, E.R. (2018) 'Artificial intelligence in advertising', *Journal of Advertising Research*, 58(3), pp. 263-267.

Kuehn, K.A. and Hadwich, K. (2019) 'The impact of artificial intelligence on customer interaction in digital marketing', *International Journal of Research in Marketing*, 36(3), pp. 420-432.

Kumar, V. and Gupta, S. (2016) 'Conceptualizing the evolution and future of advertising', *Journal of Advertising*, 45(3), pp. 302-317.

Kumar, V., Rajan, B., Gupta, S. and Pozza, I.D. (2019) 'Customer engagement in service', *Journal of the Academy of Marketing Science*, 47, pp. 138-160.

Kwahk, K.Y. and Kim, B. (2017) 'Effect of social media on consumer decisionmaking processes: The moderating role of gender and social commerce experience', *Information Systems and e-Business Management*, 15(4), pp. 759-791.

Kuvvetli, Y., Deveci, M., Paksoy, T. and Garg, H. (2021) 'A predictive analytics model for COVID-19 pandemic using artificial neural networks', *Decision Analytics Journal*, 1, p. 100007.

Kumar, T.S. (2020) 'Data mining based marketing decision support system using hybrid machine learning algorithm', *Journal of Artificial Intelligence*, 2(03), pp. 185-193.

Katiyar, S. and Katiyar, K. (2021) 'Recent trends towards cognitive science: From robots to humanoids'. In: *Cognitive Computing for Human-Robot Interaction*. Academic Press, pp. 19-49.

Lee, I. (2018) *The Internet of Things in the Modern Business Environment*. Hershey: IGI Global.

LeCun, Y., Bengio, Y. and Hinton, G. (2015) 'Deep learning', *Nature*, 521(7553), pp. 436-444.

Lemon, K.N. and Verhoef, P.C. (2016) 'Understanding customer experience throughout the customer journey', *Journal of Marketing*, 80(6), pp. 69-96.

Liu, Y. (2020) 'Artificial intelligence in consumer engagement: A typology of AI chatbot capabilities and future research directions', *Journal of Research in Interactive Marketing*, 14(1), pp. 133-154.

Liu, Y., Li, H. and Hu, F. (2013) 'Website attributes in urging online impulse purchase: An empirical investigation on consumer perceptions', *Decision Support Systems*, 55(3), pp. 829-837.

Luo, X., Andrews, M., Song, Y. and Aspara, J. (2014) 'Group-buying deal popularity', *Journal of Marketing Research*, 51(2), pp. 241-256.

Liu, Z., Lin, Y. and Sun, M. (2023) *Representation learning for natural language processing*. Cham: Springer Nature.

Lopez, S. (2023) 'Optimizing marketing ROI with predictive analytics: Harnessing big data and AI for data-driven decision making', *Journal of Artificial Intelligence Research*, 3(2), pp. 9-36.

Madhuri, S., Dhara, K., Sireesha, K.N., Gurram, D. and Mylapalli, S. (2024) 'Impact of machine learning and artificial intelligence on customer satisfaction and sales administration', *Educational Administration: Theory and Practice*, 30(4), pp. 8509-8516

Ma, L. and Sun, B. (2020) 'Machine learning and AI in marketing–Connecting computing power to human insights', *International Journal of Research in Marketing*, 37(3), pp. 481-504.

Makhlooq, A. and Al Mubarak, M. (2024) 'Artificial intelligence and marketing: Challenges and opportunities', in *Technological Innovations for Business, Education and Sustainability*, pp. 3-16.

Menard, S. (2002) Longitudinal research. Sage.

McGuirk, P.M. and O'Neill, P. (2016) *Using questionnaires in qualitative human geography*. Routledge.

Mogaji, E., Olaleye, S. and Ukpabi, D. (2020) 'Using AI to personalise emotionally appealing advertisement', in *Digital and Social Media Marketing: Emerging Applications and Theoretical Development*, pp. 137-150.

Moinuddin, M., Usman, M. and Khan, R. (2024) 'Strategic insights in a data-driven era: Maximizing business potential with analytics and AI', *Revista Española de Documentación Científica*, 18(02), pp. 117-133.

Malthouse, E.C., Haenlein, M., Skiera, B., Wege, E. and Zhang, M. (2013) 'Managing customer relationships in the social media era: Introducing the social CRM house', *Journal of Interactive Marketing*, 27(4), pp. 270-280.

Moe, W.W. and Fader, P.S. (2004) 'Dynamic conversion behavior at e-commerce sites', *Management Science*, 50(3), pp. 326-335.

Mostafa, S.A. and Ahmad, I.A. (2018) 'Recent developments in systematic sampling: A review', *Journal of Statistical Theory and Practice*, 12(2), pp. 290-310.

Murár, P. and Kubovics, M. (2023) 'Using AI to create content designed for marketing communications', in *European Conference on Innovation and Entrepreneurship*, Vol. 18, No. 1, pp. 660-668.

Mweshi, G.K. and Sakyi, K. (2020) 'Application of sampling methods for the research design', *Archives of Business Review*, 8(11), pp. 180-193.

Nardi, P.M. (2018) *Doing survey research: A guide to quantitative methods*. Routledge.

Nassaji, H. (2015) 'Qualitative and descriptive research: Data type versus data analysis', *Language Teaching Research*, 19(2), pp. 129-132.

Nayak, J.K. and Singh, P. (2021) *Fundamentals of research methodology: Problems and prospects*. SSDN Publishers and Distributors.

Negrin, K.A., Slaughter, S.E., Dahlke, S. and Olson, J. (2022) 'Successful recruitment to qualitative research: A critical reflection', *International Journal of Qualitative Methods*, 21, p. 16094069221119576.

Novak, T.P., Hoffman, D.L. and Yung, Y.F. (2000) 'Measuring the customer experience in online environments: A structural modeling approach', *Marketing Science*, 19(1), pp. 22-42.

Neeli, A.K. (2020) 'Impact and role of artificial intelligence in sales and marketing', *I-Manager's Journal on Management*, 15(1), p. 1.

Núñez, M.T. (2021) *The implementation of AI in marketing*. Universidad Pontificia de Comillas.

Nwachukwu, D. (2023) 'Evaluating the influence of artificial intelligence marketing on customer satisfaction with products and services of telecommunication companies in Port Harcourt, Rivers State, Nigeria'. [Unpublished doctoral thesis]. Rivers State, Nigeria.

Oyewole, A.T., Okoye, C.C., Ofodile, O.C. and Ejairu, E. (2024) 'Reviewing predictive analytics in supply chain management: Applications and benefits', *World Journal of Advanced Research and Reviews*, 21(3), pp. 568-574.

Osborne, N. and Grant-Smith, D. (2021) 'In-depth interviewing', in *Methods in urban analysis*. Springer Singapore, pp. 105-125.

Patten, M.L. (2016) *Understanding research methods: An overview of the essentials*. Routledge.

Palanivelu, V.R. and Vasanthi, B. (2020) 'Role of artificial intelligence in business transformation', *International Journal of Advanced Science and Technology*, 29(4), pp. 392-400.

Paschen, J., Kietzmann, J. and Kietzmann, T.C. (2019) 'Artificial intelligence (AI) and its implications for market knowledge in B2B marketing', *Journal of Business and Industrial Marketing*, 34(7), pp. 1410-1419.

Paschen, J., Paschen, U., Pala, E. and Kietzmann, J. (2021) 'Artificial intelligence (AI) and value co-creation in B2B sales: Activities, actors and resources', *Australasian Marketing Journal*, 29(3), pp. 243-251.

Peyravi, B., Nekrošienė, J. and Lobanova, L. (2020) 'Revolutionised technologies for marketing: Theoretical review with focus on artificial intelligence', *Business: Theory and Practice*, 21(2), pp. 827-834.

Rajput, A. (2020) 'Natural language processing, sentiment analysis, and clinical analytics', in *Innovation in health informatics*. Academic Press, pp. 79-97.

Remler, D.K. and Van Ryzin, G.G. (2021) *Research methods in practice: Strategies for description and causation*. Sage Publications.

Rust, R.T. and Huang, M.H. (2021) 'The AI revolution in marketing', *Journal of Marketing*, 85(1), pp. 24-42.

Rust, R.T., Huang, M.H. and Malthouse, E.C. (2021) 'From AI to IA: The impact of artificial intelligence on marketing strategy', *Journal of Marketing*, 85(4), pp. 138-151.

Rathore, M.M., Shah, S.A., Shukla, D., Bentafat, E. and Bakiras, S. (2021) 'The role of AI, machine learning, and big data in digital twinning: A systematic literature review, challenges, and opportunities', *IEEE Access*, 9, pp. 32030-32052.

Razak, I. (2023) 'Use of artificial intelligence in marketing management:Opportunities and challenges', *Jurnal Info Sains: Informatika dan Sains*, 13(03), pp. 1169-1174.

Rivera, J.D. (2019) 'When attaining the best sample is out of reach: Nonprobability alternatives when engaging in public administration research', *Journal of Public Affairs Education*, 25(3), pp. 314-342.

Riyaz, A., Musthafa, H.S., Raheem, R.A. and Moosa, S. (2020) 'Survey sampling in the time of social distancing: Experiences from a quantitative research in the wake of COVID-19 pandemic', *The Maldives National Journal of Research*, 8(1), pp. 169-192.

Rogers, E.M., Singhal, A. and Quinlan, M.M. (2019) 'Diffusion of innovations', in *An integrated approach to communication theory and research*. Routledge, pp. 432-448.

Roulston, K. and Choi, M. (2018) 'Qualitative interviews', in *The SAGE handbook of qualitative data collection*. SAGE Publications, pp. 233-249.

Sharma, K.K., Tomar, M. and Tadimarri, A. (2023) 'AI-driven marketing: transforming sales processes for success in the digital age', *Journal of Knowledge Learning and Science Technology*, 2(2), pp. 250-260. ISSN: 2959-6386 (online).

Singh, J., Flaherty, K., Sohi, R.S., Deeter-Schmelz, D., Habel, J., Le Meunier-FitzHugh, K., Malshe, A., Mullins, R. and Onyemah, V. (2019) 'Sales profession and professionals in the age of digitization and artificial intelligence technologies: concepts, priorities, and questions', *Journal of Personal Selling and Sales Management*, 39(1), pp. 2-22.

Shumanov, M., Cooper, H. and Ewing, M. (2022) 'Using AI predicted personality to enhance advertising effectiveness', *European Journal of Marketing*, 56(6), pp. 1590-1609.

Suryathi, W. and Mariani, N.W.R. (2023) 'Revitalizing marketing strategies through the use of artificial intelligence: analysis of the effect of personalization, market data analysis, and campaign automation on sales conversions', *Escalate: Economics and Business Journal*, 1(02), pp. 39-46.

Salkind, N.J. (ed.) (2010) Encyclopedia of research design. Vol. 1. Sage.

Saranta, S.S. (2023) 'The impact of green marketing on the buying behavior of international students at Karelia University of Applied Sciences'. [Unpublished doctoral thesis]. Karelia University of Applied Sciences.

Sharma, K.K., Tomar, M. and Tadimarri, A. (2023) 'Optimizing sales funnel efficiency: Deep learning techniques for lead scoring', *Journal of Knowledge Learning and Science Technology*, 2(2), pp. 261-274. ISSN: 2959-6386 (online).

Sreejesh, S., Mohapatra, S. and Anusree, M.R. (2014) 'Business research design: exploratory, descriptive and causal designs', in *Business research methods: an applied orientation*, pp. 25-103.

Safavi, M.H. and Shukur, Z. (2014) 'Conceptual approach to user interface design for e-commerce applications', *Journal of Information and Communication Technology*, 13, pp. 117-130.

Shankar, V. (2018) 'How artificial intelligence (AI) is reshaping retailing', *Journal of Retailing*, 94(4), pp. vi-xi.

Seyedan, M. and Mafakheri, F. (2020) 'Predictive big data analytics for supply chain demand forecasting: methods, applications, and research opportunities', *Journal of Big Data*, 7(1), p. 53.

Sia, C.L., Lim, K.H., Leung, K. and Lee, M.K.O. (2010) 'Web strategies to promote internet shopping: is cultural-customization needed?', *MIS Quarterly*, 34(3), pp. 491-512.

Sabu, K.M. and Kumar, T.M. (2020) 'Predictive analytics in agriculture: forecasting prices of arecanuts in Kerala', *Procedia Computer Science*, 171, pp. 699-708.

Sreedevi, A.G., Harshitha, T.N., Sugumaran, V. and Shankar, P. (2022) 'Application of cognitive computing in healthcare, cybersecurity, big data and IoT: a literature review', *Information Processing and Management*, 59(2), p. 102888.

Srinivasan, R., Lilien, G.L. and Rangaswamy, A. (2002) 'Turning adversity into advantage: does proactive marketing during a recession pay off?', *International Journal of Research in Marketing*, 22(2), pp. 109-125.

Syam, N. and Sharma, A. (2018) 'Waiting for a sales renaissance in the fourth industrial revolution: machine learning and artificial intelligence in sales research and practice', *Industrial Marketing Management*, 69, pp. 135-146.

Tambe, P., Cappelli, P. and Yakubovich, V. (2019) 'Artificial intelligence in human resources management: challenges and a path forward', *California Management Review*, 61(4), pp. 15-42.

Terry, G., Hayfield, N., Clarke, V. and Braun, V. (2017) 'Thematic analysis', in *The SAGE handbook of qualitative research in psychology*, 2nd ed., pp. 17-37.

Tillé, Y. (2020) *Sampling and estimation from finite populations*. John Wiley and Sons.

Tobi, H. and Kampen, J.K. (2018) 'Research design: the methodology for interdisciplinary research framework', *Quality and Quantity*, 52, pp. 1209-1225.

Turner, S.F., Cardinal, L.B. and Burton, R.M. (2017) 'Research design for mixed methods: a triangulation-based framework and roadmap', *Organizational Research Methods*, 20(2), pp. 243-267.

Trivedi, S. and Patel, N. (2020) 'The role of automation and artificial intelligence in increasing the sales volume: Evidence from M, S, and MM regressions'. Available at: SSRN [Accessed 2 Aug. 2024].

Umamaheswari, D.D. (2024) 'Role of artificial intelligence in marketing strategies and performance', *Migration Letters*, 21(S4), pp. 1589-1599.

Vemulapalli, G. (2024) 'AI-driven predictive models strategies to reduce customer churn', *International Numeric Journal of Machine Learning and Robots*, 8(8), pp. 1-13.

Venkateswaran, P.S., Dominic, M.L., Agarwal, S., Oberai, H., Anand, I. and Rajest, S.S. (2024) 'The role of artificial intelligence (AI) in enhancing marketing and customer loyalty', in *Data-Driven Intelligent Business Sustainability*, pp. 32-47. IGI Global.

Wolf, C.T. (2020) 'AI ethics and customer care: Some considerations from the case of "Intelligent Sales", in *Proceedings of the 18th European Conference on Computer-Supported Cooperative Work: The International Venue on Practice-* centered Computing on the Design of Cooperation Technologies - Exploratory Papers, Reports of the European Society for Socially Embedded Technologies (ISSN 2510-2591). DOI: 10.18420/ecscw2019\_n02.

Wu, C.W. and Monfort, A. (2023) 'Role of artificial intelligence in marketing strategies and performance', *Psychology and Marketing*, 40(3), pp. 484-496.

West, P.W. (2016) 'Simple random sampling of individual items in the absence of a sampling frame that lists the individuals', *New Zealand Journal of Forestry Science*, 46, pp. 1-7.

Wedel, M. and Kannan, P.K. (2016) 'Marketing analytics for data-rich environments', *Journal of Marketing*, 80(6), pp. 97-121.

Wang, J.F. (2023) 'The impact of artificial intelligence (AI) on customer relationship management: a qualitative study', *International Journal of Management and Accounting*, 5(5), pp. 74-88.

Wilson, H.J., Daugherty, P.R. and Morini-Bianzino, N. (2017) 'The jobs that artificial intelligence will create', *MIT Sloan Management Review*, 58(4), pp. 14-16.

Wirth, N. (2018) 'Hello marketing, what can artificial intelligence help you with?', *International Journal of Market Research*, 60(5), pp. 435-438.

Yang, X., Li, H., Ni, L. and Li, T. (2021) 'Application of artificial intelligence in precision marketing', *Journal of Organizational and End User Computing (JOEUC)*, 33(4), pp. 209-219.

Yau, K.L.A., Saad, N.M. and Chong, Y.W. (2021) 'Artificial intelligence marketing (AIM) for enhancing customer relationships', *Applied Sciences*, 11(18), p. 8562.

Yang, S., Liu, Y. and Wang, H. (2021) 'Understanding AI marketing strategies and their impact on customer engagement', *Journal of Business Research*, 124, pp. 157-170.

Yao, S. and Mela, C.F. (2021) 'The effect of discounting on sales and retention in subscription-based settings', *Journal of Marketing Research*, 58(3), pp. 459-475.

Yim, J., Chopra, R., Spitz, T., Winkens, J., Obika, A., Kelly, C., Askham, H., Lukic, M., Huemer, J., Fasler, K. and Moraes, G. (2020) 'Predicting conversion to wet agerelated macular degeneration using deep learning', *Nature Medicine*, 26(6), pp. 892-899.

Yin, R.K. (2017) *Case study research and applications: design and methods*. Sage Publications.

Zhang, H., Watson, G.F., Palmatier, R.W. and Dant, R.P. (2016) 'Dynamic relationship marketing', *Journal of Marketing*, 80(5), pp. 53-75.

Zhang, B., Mildenberger, M., Howe, P.D., Marlon, J., Rosenthal, S.A. and Leiserowitz, A. (2020) 'Quota sampling using Facebook advertisements', *Political Science Research and Methods*, 8(3), pp. 558-564.