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Harnessing AI for Enhanced CRM: Insights into Customer Satisfaction, Loyalty and Retention

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Abstract

This study explores the impact of artificial intelligence (AI) on customer relationship management (CRM) by employing a quantitative research approach. The research draws on data collected through a structured questionnaire. A deductive approach guides the investigation, beginning with hypotheses derived from a thorough literature review and progressing to empirical testing using statistical tools and data visualization. The research employs SPSS software for data analysis, leveraging descriptive and inferential statistics to uncover patterns, trends, and correlations. A simple random sampling technique was adopted to select 101 respondents, ensuring diverse participation and generalizable results. Key variables examined include AI's influence on customer satisfaction, loyalty, and retention, as well as the challenges and benefits of AI implementation in CRM. Findings from this study are expected to provide valuable insights into the transformative potential of AI in enhancing customer engagement and fostering loyalty. By highlighting both opportunities and challenges, the research contributes to a deeper understanding of AI's role in CRM and offers evidence-based recommendations for businesses aiming to integrate AI technologies into their strategies.

Introduction

The power to completely transform the way companies are communicating with their customers lies in Artificial intelligence (AI). It is different from human intelligence in that it uses rapid data processing to do so. The ability to process and convert data into information to guide goal directed behavior is a general definition of intelligence in artificial intelligence. To do this, a set of computer models is used for the simulation of biological and natural intelligence.

In response to continued pressure on margins, shorter strategy cycles and increasing customer expectations, companies are becoming more and more inclined to adopt artificial intelligence technology backed by data analytics. The dynamics of how firms interact with their customers will be transformed and an opportunity for stronger customer Brand relationships presented in this change. In particular, by deepening the understanding of customer preferences and shopping patterns in companies, advances in artificial intelligence promise to improve all aspects of customers' experience. It is therefore possible to achieve significant benefits for companies and increase customer satisfaction by strategic deployment of artificial intelligence technologies across a range of crucial contact points with customers. (Evans, 2019)

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The use of artificial intelligence to analyze customers' previous purchases and preferences plays an important role in personalized services and product recommendations. This has a significant impact on the ability of companies such as beauty brands to produce personalised styles and product suggestions that correspond to each user's requirements and preferences, in all sectors. Increased automation, reduced costs, more flexibility and simplified interactions with customers are expected benefits. (Maras, 2020)

To influence important business data and enhance customer Experience, AI strategies and research methodologies are being used by an increasing number of companies. In particular, artificial intelligence is now a key component of today's customer relationship management. Marketers can shift their focus to extensive research efforts to identify trends conducive to innovative solutions for less immediate customer needs following the successful implementation of AI powered CRM.(Carlsson-Szlezak et al., 2020)

Companies have pioneered a new paradigm, known as AI, since humans began to use AI in various fields. Using training data, AI focuses on creating new and unique content. Literature, images, music and videos may form part of this content. Therefore, there is scope for a wide range of applications. For example, chatbots are one of the applications of genetic AI. Many companies have developed chatbots, including DeepMind, OpenAI, Google, and Meta. (Wang, Scells, et al 2023).

There are significant changes in the marketing sector as artificial intelligence and language models such as ChatGPT become more common. As a result of its ability to allow advertisers to create custom content which matches their target audience, ChatGPT has been recognized as an industry game changer. It can be used to create virtual assistants for customer service, which will allow consumers to receive rapid and personalized responses to their problems. It is also possible to use them for the development of personalized marketing materials that allow companies to interact with customers in an unique way. (Aydin et al, 2023).

Creates a new framework to disrupt customer relationship management systems with artificial intelligence and gives enterprises an edge. More information on products and services is available to customers than at any time in their history. The rapid development of artificial intelligence has led to the development of transformative technologies that have the potential to significantly impact the future, ideally benefiting mankind. (Rashi, Biswal et al 2024).

The company has undergone unprecedented changes with a firm focus on meeting the needs of customers. Customers, especially those who are tech-savvy and used to the newest innovations, expect to provide smooth services. All is used in different services to meet customer needs and improve them, which has an impact on relationships with customers as a whole. (KL and Madasamy, 2024)

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Enterprises use artificial intelligence technology to take care of a wide variety of marketing activities, acquire, maintain and sustain customer relationships. A large volume of data can be managed and analyzed by AI. Customer data to provide firms with insight that improves their decision making and timeliness of responses to customer needs. In addition, artificial intelligence can provide personalized recommendations to consumers with reduced costs of searching for information and improved relationships between consumers and products. (Johnson et al, 2023).

The constant changes in consumers' needs and desires, which are influenced by global trends and culture, are constantly changing the way marketing evolves. In recent years, marketing has evolved from traditional market practices to the adoption of electronic applications in a new digital space where consumers are thriving which is known as Electronic Marketing Or Artificial Intelligence. (Dr. Nwachukwu, Darlington et al, 2023).

Background

In this framework, the introduction will explore the inherent shortcomings of traditional CRM systems, shedding light on the challenges they pose in meeting the demands of today's dynamic and fast-paced business landscape. Consequently, the paper will underscore the importance of predictive analysis in revolutionizing the effectiveness of CRM systems. Furthermore, this research will delve into the potential of incorporating AI as pivotal components in modernizing CRM and automating tasks to deliver a more personalized and compelling customer experience. In an age where customer expectations are rapidly evolving, it's imperative for organizations to acknowledge the limitations of conventional CRM approaches and seize the opportunities presented by predictive analysis, artificial intelligence, and machine learning to address customer perceptions of fairness in CRM practices. Assessing the fairness of outcomes and processes becomes paramount, as it directly impacts customer trust in a company. Trust and perceptions of justice are intricately linked, with customers being more inclined to trust businesses that demonstrate fairness, fostering a mutually beneficial relationship. (Alexander, T. 2024)

The age of digitalization, customer relationship management (CRM) has become a cornerstone of marketing strategies. To investigate how modern CRM strategies and technologies enable companies to revolutionize crucial aspects of their marketing operations. It explores how CRM enables personalized and instantaneous consumer engagement, amplifies the efficiency of marketing initiatives, and fosters data-informed decision-making. Through a comprehensive review of pertinent literature and examination of case studies

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from leading organizations, this research aims to demonstrate the transformative capabilities of CRM across diverse domains, such as campaign management, digital marketing, optimization of customer experiences, and formulation of strategy in evidence. (M. Sharma, 2024).

In a time characterized by continuous technological advancements, the banking sector stands at the forefront of embracing innovative ideas to enhance customer relationships and streamline operations. Artificial Intelligence (AI) emerges as a groundbreaking technology poised to revolutionize various facets of traditional banking practices globally. Particularly in India, where banking plays a pivotal role in the economy, the integration of AI is expected to yield significant impacts on customer-bank interactions, service delivery, and the overall functioning of the industry. (Lipinraj K1, Dr. S. Madasamy2, 2024).

Within the realm of artificial intelligence in financial management, it becomes imperative to delve into underlying issues at a deeper level. Factors such as adoption risks, regulatory policies, and ethical dilemmas necessitate thorough consideration. Systematic literature reviews are poised to bridge knowledge disparities by presenting a structured amalgamation of prior research discoveries. Moreover, this research holds pragmatic significance in addressing the hurdles and uncertainties associated with the integration of AI in financial management. By pinpointing ethical concerns, data security risks, and ambiguities, we can devise robust mitigation strategies to ensure the alignment of AI utilization with both financial objectives and ethical principles. Through a comprehensive understanding of AI's impact on financial management, this research aims to offer insights into the evolution of financial paradigms in the digital age. By recognizing the immense potential of AI in reshaping risk management and formulating adaptable financial strategies, this study lays the groundwork for envisioning future developments in the financial landscape (Xie, 2019).

Realizing the full potential of efficiency and profitability through AI isn't limited to isolated segments within the supply chain. By integrating Artificial Intelligence across all business processes handled by ERP systems, there's a prospect for comprehensive management of operations, leading to notable cost reductions and enhanced resource utilization efficiency. This holistic approach not only boosts profitability but also enhances the overall competitiveness of the business. (J. Jhurani, 2024)

Examining the acceptance of technology holds considerable sway over e-CRM (Electronic Customer Relationship Management) as the reception of technology by users directly influences the efficacy and efficiency of its implementation within the e-CRM system. Favorable reception of technology encourages its adoption and active utilization by company employees, thereby amplifying customer

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interactions and the management of customer relationships. According to Wilson's (2019) study on the Technology Acceptance Model (TAM), acceptance of technology hinges upon users' perceptions of its usefulness and ease of use. This principle finds relevance in e-CRM implementation, where employees who perceive e-CRM as beneficial in streamlining customer interactions and enhancing customer relationship management are more inclined to embrace the technology. (M. Jamaludin, etal, 2024).

Customer Relationship Management (CRM) stands as a crucial component of any business, particularly within industries like Fast-Moving Consumer Goods (FMCG) and the food sector, where competition is fierce and consumer preferences evolve rapidly. Traditionally, CRM operations involved manual procedures for data collection, analysis, and customer engagements. However, the emergence of Artificial Intelligence (AI) and Machine Learning (ML) is revolutionizing CRM practices. AI refers computer systems' emulation of human intelligence processes, enabling them to execute tasks that typically demand human cognition, including learning, reasoning, and problem-solving. Machine Learning, a subset of AI, concentrates on crafting algorithms that empower computers to learn from data and generate predictions or decisions based on that learning. (Dr. K K Ramachandran, 2024).

This study delves into elucidating the adoption and impact of Generative AI, particularly within the marketing sphere. Our investigation was steered by several key factors. The escalating interest from researchers in this domain has underscored the significance of this inquiry. With the integration of generative AI, including models such as ChatGPT, the ramifications for marketing strategies have become increasingly pronounced across diverse industries. By dissecting these theoretical foundations, this study furnishes a roadmap for comprehending the mechanisms by which generative AI shapes marketing practices. Moreover, the novelty and dynamic evolution of generative AI technologies warrant a proactive stance toward conceptual exploration. Given the swift progressions and transformative potential of AI within marketing, this study acts as a catalyst for stimulating further exploration in this realm. (R. Gupta, etal, 2024).

While employees may acknowledge their organizations' endeavors to remain at the forefront of technological progress and adopt innovative work methodologies, organizational research indicates a prevalent belief among employees that companies aim to utilize AI for labor substitution rather than work enhancement (Amis et al., 2020; Markus, 1983). Hence, the concept of power assumes relevance in the context of AI, as it can elucidate whether and to what degree an AI system is employed from a perspective of substitution or enhancement, delineating its role in either controlling or empowering workers (Cattaneo & Chapman, 2010).

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The adoption of AI in marketing to enhance customer service is commonly referred to as Artificial Intelligent Marketing. According to Cognizant (n.d.), Artificial Intelligence Marketing involves utilizing AI tools and techniques such as data models, algorithms, and machine learning to derive customer insights that marketers can utilize in optimizing expenditures, tailoring content, and personalizing the customer experience. The significance of AI in marketing is profound, particularly within the digital marketing realm, where marketers can analyze consumer behaviors, tailor products and services to align with their preferences, and create timely and compelling advertising content to evoke emotional responses from customers. (Dr. N. Darlington, Dr. A. M. Patience, 2023).

Problem Statement

One of the biggest transformations and disruptors in technology is 21st century's artificial intelligence (AI). As the number of AI systems increases. The concerns of global societal dynamics are embedded in society, and associated injustices are on the rise. However, integration of AI may be possible as the use of AI grows. Exacerbate existing societal imbalances or create new ones between nations.Research suggests that AI can increase productivity and economic activity Development, displacement of employment and polarizing wealth and by 2030, AI and Technology is capable of replacing 800 million jobs in the world Research conducted by (McKinsey Global Institute, 2017).

Al's incorporation into CRM systems has greatly expanded their ability to gather, store, and process enormous volumes of customer data. On the other hand, this presents grave issues with data security and privacy. Concerns about the use and security of their personal information are growing among consumers. (Fosso Wamba, S., Akter et al, 2015).

Al in CRM may present moral dilemmas, especially when it comes to automated decision-making. Al system decisions may unintentionally introduce prejudice or discrimination, which would be detrimental to relationships and customer trust. (Martin, K., & Murphy, P. (2017) Al has the potential to improve customer interactions more efficiently, but it also has the potential to lessen the human touch that human agents offer. Strong customer relationships require empathy and emotional understanding, which Al-driven interactions may lack. (Huang, M. H., & Rust, R. T. 2018). Implementing Al into existing CRM systems poses significant technical challenges. Integration issues can lead to disruptions in service and inconsistencies in data processing, adversely affecting customer experiences and satisfaction. (Columbus, L. 2018). An over-reliance on Al and automation in CRM systems can lead to a degradation in service quality. When companies depend too heavily on automated systems, they may neglect the need for human oversight and

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intervention, which can result in inadequate handling of complex or unique customer issues. (Davenport, T. H., & Ronanki, R.2018). Alpowered CRM systems often require data integration from multiple sources. However, inconsistent data formats and fragmentation across different platforms can lead to inaccurate customer insights and poor decision-making. (Kietzmann, J., Paschen, et al 2018).

The initial costs of implementing AI in CRM systems can be prohibitively high for many organizations. This includes the costs associated with purchasing AI software, hardware upgrades, and training staff, which can be a significant barrier for small to medium-sized enterprises. (Columbus, L. 2020). The introduction of AI in CRM often faces resistance from employees who are accustomed to traditional ways of working. This resistance can stem from fear of job loss, a lack of understanding of AI benefits, and discomfort with new technologies, hindering the effective adoption of AI. (Bughin, J., Seong, J., et al 2018). The effectiveness of AI in CRM is heavily dependent on the quality and reliability of the AI models used. Poorly designed or inadequately trained models can lead to incorrect customer insights and actions, damaging customer relationships. (Agrawal, A., Gans, J. et al 2018).

The rapid integration of Artificial Intelligence (AI) into customer relationship management (CRM) has transformed the way businesses interact with their customers, but it also poses a significant threat to the very foundation of customer relationships. As AI-powered chatbots, automated email responders, and predictive analytics take over an increasing share of customer interactions. The growing concern is that, on the altar of efficiency and cost cutting, human touch, empathy, and emotional intelligence, which are essential for building trust, loyalty, and long term relationships, are sacrificed. Over reliance on AI can result in a dehumanizing of customer relations, making customers feel like mere data points instead of caring human beings, leading to decreased satisfaction among clients, loyalty and confidence, and a loss of competitive advantage for businesses. In addition, biases, errors, unfair outcomes, which can damage customer relationships and reputations beyond repair, may result from a lack of transparency and explanation in the AI driven decision making processes. Thus, it is essential to balance the benefits of artificial intelligence in customer relationship management with the need for human empathy, creativity and emotion awareness while developing AI solutions that enhance humans' abilities but do not replace them.

Research Questions

1.To what extent can Al-powered chatbots and virtual assistants replicate the emotional intelligence and empathy of human customer service representatives, and what are the implications for customer trust and loyalty?

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- 2.How can businesses achieve a balance in terms of efficiency and cost savings resulting from AI driven automation and what are the main factors influencing this balance, as well as human touch on customer relationships and personalization needs?
- 3. How can businesses make their use of AI in customer relationship management transparent, accountable and fair? What is the Ethical Impact of Using Artificial Intelligence and Machine Learning Algorithms to Predict and Change Customer's behavior?

Research Objectives

- 1. This project aims at investigating the impact of Artificial IntelligenceAI on customer relationship management, with a principal objective to understand its influence on consumer satisfaction, loyalty and retention. The aim of this study is to examine the advantages and challenges associated with adoption of Artificial Intelligence in Customer Relationship Management, such as its influence on customer interaction, personalization and emotional intelligence.
- 2.The research aims at identifying key factors that are driving the successful application of AI in customer relationship management and developing a framework for businesses to assess its impact on relationships with customers. This study will contribute to the development of effective AI powered CRM strategies that enhance customer experience and foster long term relationships.
- 3. The research aims to inform business decisions based on evidence in order to exploit the power of artificial intelligence in customer relationship management. By investigating the impact of AI on customer relationships, this study aims to shed light on the future of CRM in the AI era.

Scope of Study

The scope of the study is to examine how artificial intelligence affects customer relationships, with a focus on acquiring, keeping and retaining customers. It examines the impact of customer interactions, stages and segments with a view to identifying benefits and challenges. It also considers ethical implications and strategic opportunities.

Literature Review

Artificial intelligence

The emergence of generative artificial intelligence tools in education has led to an increase in discussions about generative artificial intelligence tools. In this study, a framework of human centered learning and teaching based on generative artificial intelligence tools for the development of self regulated learning through domain knowledge training has been proposed to catalyze changes in education

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practice. The Framework illustrates how generative AI tools can radically change education practice and transform the way teaching and training are taught and learned in order to make it human centered. It stresses the changing role of teachers, who are increasingly skilled facilitators and humanistic storytellers in creating differentiated instructions that aim to develop students' individual learning styles. (R. Peres, M. Schreier et al, 2023).

In order to address pressing challenges and foster sustainable solutions, this article addresses the transformative potential of combining artificial intelligence with environmental science. Environmental monitoring, predictive modeling of climate change, conservation and biodiversity as well as sustainability management are examined interdisciplinarily with regard to the integration of artificial intelligence technologies into environment science. The article highlights the role of artificial intelligence in real time data analysis, predictive modeling and optimisation that provide innovative solutions to problems such as climate change, biodiversity loss or resource depletion. The abstract stresses the importance of collaboration efforts in promoting environmental sustainability and highlights the need for integrated research to exploit Al's full potential.(Shuford, J 2024).

In the literature on Knowledge Management, advancement in information technology is often seen as a catalyst for organizational change programs.. These AI tools are increasingly finding their way into commercial use, thanks to a large amount of data and increased computational power. These artificial intelligence tools are based on different approaches to simulating human intelligence, e.g. Supervised Machine Learning, Neural Networks or Deep Learning. (Canhoto and Clear, 2019).

Nuclear power has unique advantages compared to other energy sources as a form of clean energy. A review has been made of the current studies on application of AI for nuclear reactor design optimization and operational management. The majority of these studies have achieved excellent results on limited datasets. However, in order to scale up AI technologies to the real world, it is necessary to continue to promote them. Nuclear reactor problems, such as increasing the safety of tomorrow's Industrial Grade AI models, need to be better interpreted generalization capabilities. Thus, as a number of studies have shown, the mechanism and data double paradigm should be widely applied. In scientific computing challenges, it can address the high data demand of AI models. (D.C. Montgomery, E.A. Peck, 2021).

The ability of artificial intelligence has been greatly enhanced by technological advances in machine learning techniques. These systems mimic human characteristics in such a way as to complement them at scale by means of software, which include functions that are not

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just visual and speech but also language processing, learning or resolving problems. As a result, Als are in ever more advanced position to make decisions concerning vital health issues such as health care, management and law enforcement. Despite their many upside promises, Al systems can fail like humans to achieve their intended goals, either because the training data they use may be biased or because their recommendations, decisions, and actions yield unintended and negative consequences. (Kellogg, Valentine, Christin, 2020). Much of what we do every day is mediated by Al. Al is used in one way or another by all Google search, email filter and image manipulators because it seeks to take the most effective action possible under a given situation. The growing importance of artificial intelligence to our world is underlined by the rise of generative Al. The increasing importance of Al to our world is illustrated by the rise of generative artificial intelligence, i.e. These technologies can offer great advantages. Machines can learn at a scale, based on large amounts of data and therefore carry out tasks that humans are unable to perform in the same time frame or even remotely. (Bearman et al, 2022).

Industries is the current trend of automation with different technologies like Internet of Things, Cloud computing, Big Data, Cyber Security etc. and creates a smart industry called Smart Industry. By understanding the advantages of intelligent manufacturing and production, industry is in a need to grow its revenues. Artificial intelligence is the study and design of smart systems that interact with the environment in order to perform certain actions, thereby maximizing their probability of success. Combining AI with Industries creates a dream to combine man and machines in order to transform the sector digitally. To design intelligent machines with natural language processing, neural networks, deep learning and reinforcement learning along with cognitive technologies can be used to increase the efficiency of this system. (S.I. Tay, T.C. Lee et al, 2018).

In order to ensure the long term safety and security of growth, it is also foreseen that AI plays a major role. Thanks to artificial intelligence, new sectors of the Internet of Things and old towns have become high technology intelligent cities. The single objective driving the development of smart cities is to improve people's quality of life by enabling them to use technology on a daily basis. Internet of Things (IoT) is a revolution in how businesses and industries are communicating and running their day to day activities, as well as solving the problems that citizens encounter due to not being digitized. (Vinod Mahor, Sadhna et al, 2023).

As a result of the current artificial intelligence, rapidly evolving technologies have changed the world in ways that are best for humanity. All is being used to handle many real world issues, which is good for people include industrial machines, intelligent helpers, self-driving

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vehicles, and intelligent ERP. Today's AI applications are very focused on a limited number of tasks, but those driven by artificial intelligence. tasks are changing many marketplaces and sectors. In the years to come, AI will continue to advance as a result of extensive study. (Arjun Reddy Kunduru, 2023).

Recently, the use of AI in agriculture has been significantly increased. The agriculture sector is turning to artificial intelligence in order to improve the cultivation of healthy crops, control pests, monitor soil and growing conditions, analyse data for farmers with a view to enhancing other food supply chain management activities. This makes it difficult for farmers to choose the right time to plant seeds. For a specific weather scenario, AI helps farmers select the most suitable seed. It also offers data on weather forecasts. AI-powered solutions will improve crop quality, enable farmers to produce more with fewer resources, and accelerate the time it takes for products to reach the market. (Zhang, Z. Guo et al, 2021)

Customer Relationship Management

In a time when technology is advancing quickly, telecom companies need to move fast to develop new products that cater to Generation Z's constantly shifting needs.Long-term gains can be made from a strong user experience by boosting product innovation and implementing effective customer relationship management to raise customer satisfaction. Positive word of mouth recommendations are generated by customers' satisfaction. (Amgad, A. S., Ahmed, et al, 2021).

Competition on the market has increased and product life cycles have been substantially shortened in today's business environment, characterized by a high level of knowledge transfer. In order to meet their functional and emotional needs, customers are increasingly buying unique products, services and experiences that correspond to their personal preferences. Therefore, in response to these environmental requirements and to meet the ever increasing demands of heterogeneity, customization has emerged and has been regarded as critical. The successful practices of a number of companies, e.g. Dell, Uber, P&G and Airbnb, have shown that customization is an essential strategy to consolidate and grow market shares in order to achieve these goals. In order to gain a competitive edge and deliver sustainable value in the competitive environment, enterprises need to adopt individualized provision and delivery strategies as well as shift away from standardization policies and towards personalized services. (Yang et al, 2020).

The study analyzes the cumulative effects of these variables on customer satisfaction, consumer trust and engagement with staff. The positive correlation between social media interaction and customer satisfaction, as well as the quality of service provided in relation to

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consumer contentment and trust. In addition, HR practices have shown a significant impact on organizational trust and employee engagement. These findings demonstrate the strategic importance of effective social media engagement, superior customer service quality and strong human resources management in shaping positive perceptions for both customers and employees. (Wardana, M. A.,2024). Social customer relationship management (SCRM) is an evolving strategy that is gaining popularity in the industries by building new, better relationships with customers through the use of social media (SM) platforms. Therefore, the purpose of this study is to assess SCRM's impact on customer service and loyalty in industries and businesses. (Afaq, Gaur et al, 2023). In the digital economy, customer relationship management (CRM) has emerged as the key to sustainable marketing performance and the lifeblood of the banking industry. As a result of the discovery of computers and the Internet, the integration of CRM and related elements has transformed the industrial economy into a digital economy, resulting in a number of benefits, including increased research documents and collaboration. Marketers have created a CRM system that combines human and digital infrastructure to support sustainable marketing performance of banks through innovations in profitability, segmentation, customer acquisition, and customization(Stephen Acheampong, Tetyana Pimonenko et al, 2023).

The article focuses on customer relationship management, providing insight into best practices that are specific to business managers. With the contemporary business landscape increasingly emphasizing customer-centric approaches, effective CRM strategies are imperative for sustained success. Key principles, tools and techniques that business managers can use to optimize their CRM initiatives. It provides a thorough guide to improving customer relations and driving business growth, taking into account the need for customers to have strong CRM systems in place. (Dr. Ayesha Ahmed, 2024). A customer focused approach to business strategy is required where the value chain begins and ends with customers, when market dynamism causes constant changes in consumers' expectations. This business approach can be achieved using technological tools for business such as Enterprise Resource Planning (ERP) and Customer Relationship Management (CRM). CRM is crucial for creating efficient channels and techniques for customer-centric information management when it comes to technological solutions for business management. In order to help businesses achieve better commercial results, its principal aim is to enhance the management of customer relationships. For business decision makers, which makes CRM a key tool, it is essential to manage customer information in a consistent manner. (Gil-Gomez et al, 2020).

CRM is a double benefit to SMEs in terms of customer relationship management, both customer knowledge management (CKM) and

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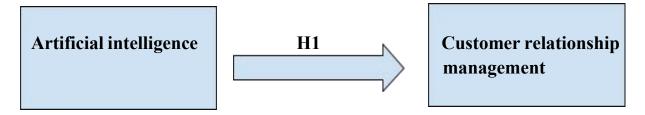
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innovation. This confluence of Consider CRM a critical business tool, interests and benefits are the basic point. Model innovation, encouraging SME efforts in economic, social and environmental fields. sustainability The most recent integration approach available for the management of relationships is CRM. In spite of organizational tensions resulting from both trends, a company that is willing to survive and improve its position on the market needs to excel in both exploitative and exploratory innovation. Such mix of current exploitation and prospective exploration is the principle for sustainable business models as the core of modern and dynamic businesses.((Tushman & O'Reilly 2020).

Whether it's a multinational corporation with billions of employees, a multimillion dollar depositary business or sole traders with few daily customers, the relationship between an organization and its clients is life. The most important issue is the relationship between the organization and its traditions. In theory, consumer relationship management (CRM) is the same between these two cases but can vary considerably. Consumer services and customer knowledge will be affected for different purposes by the implementation of a Customer Relationship Management programme. Likewise, consumer loyalty and awareness would be greatly affected by the adoption of a CRM strategy.CRM fortifies relationships between the business and its clients while ensuring that customers are satisfied. The partnership between customers and sales representatives is enhanced by this practice. (Alessandro, A. B, 2021).

One of the most widely used management tools is customer relationship management CRM, which has been extensively highlighted in literature. CRM is considered to be a complex process requiring intervention in different areas of the company as a whole. The ability to strengthen customer relationships is considered to be a likely source of competitive advantage in the current competitive environment, where competition is intensifying. For this reason, over the past few years, businesses have made large investments in the application of customer relationship management (CRM). (Chang, Wong, et al, 2016).

Research Framework



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Methodology

Introduction

The methodologies for data collecting and analysis are covered in this chapter. The impact of AI on CRM is investigated in this study by analyzing numerical data using statistical tools and quantitative research methodologies. Data is through a Questionnaire.

Research Method

The research method which we used in our research project is a quantitative method and the following statement justifies our research method.

Explanation

Our research approach, which involves gathering and analyzing data from online sources such as Google Scholar, Google responses and other websites, is purely quantitative in nature. This is apparent from the fact that numerical data such as statistics and percentages, which are characteristics of quantitative research, are being collected. In addition, our research questions are based on the identification of trends, patterns and correlations which is a classic analytical method. Our quantitative research is reinforced by the use of statistical methods and data visualization techniques to analyze and interpret information. In particular, to illustrate trends and patterns, we will use content analysis to code and analyze text data, descriptive statistics to summarize data, inferential statistics to draw conclusions, and data visualization. Although some qualitative data can be obtained, the overall nature of our research, which involves the analysis of large datasets and the identification of numerical patterns, makes it a quantitative method of research. This way, we can reach a larger audience and thus make our research more credible. We will be able to gain valuable insights and correlation through the use of qualitative methods, providing a clear picture of the impact of Al on managing customer relationships.

Research Approach

The research approach which we used in our research project is deductive approach and the following statement justifies our research approach.

Explanation

We're using a deductive approach in our research project, which involves a systematic and logical transition from general theories and hypotheses to specific, reliable predictions. We have come up with a set of straightforward and concise hypotheses that guides our

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study, based on an extensive review of the literature related to the impact of artificial intelligence in customer relationship management. We are collecting and quantifying data on the impact of artificial intelligence on customer relationships, loyalty and retention by carefully analyzing online sources such as Google Scholar and Google responses. We test our hypothesis using statistical methods and data visualization techniques, identifying patterns and correlations that can shed light on the research issue. In the process of refining our findings, we continue to review and improve our theoretical framework with a view to ensuring coherence and strong support for an argument which would contribute significantly to the current knowledge base. We ensure a rigorous, systematic and transparent research process delivering reliable and generalizable results to businesses that seek to use the power of AI in customer relationship management by adopting deductive methodology; ultimately informing evidence based decisions.

Research Instrument

In order to ensure a systematic and objective approach, the research instruments used in our research project are specifically designed for collecting and analyzing information from online sources. Our primary research instrument is a comprehensive search strategy, utilizing keywords and Boolean operators to retrieve relevant articles, studies, and reports from Google Scholar, Google responses, and other reputable online databases. In addition, we use an extraction tool to systematically collect and organize the data from selected sources so as to ensure accuracy and effectiveness. In addition, to analyze and display the data we use Statistical Software that will allow us to detect trends, patterns or correlation. In order to ensure that our findings are precise, general and significant in the existing body of knowledge concerning the impact of artificial intelligence on customer relationship management, our research instruments shall be subjected to rigorous tests for reliability and validity.

Data Collection

Through a systematic search of the Internet, including Google Scholar, Google Answers and other reliable online databases, we have gathered data for our project. In order to find relevant articles, studies and reports related to the impact of artificial intelligence on customer relationship management, our search strategy employed specific keywords and Boolean operators. In order to ensure that our data is up to date and representative of the existing state of knowledge in this area, we selected sources based on their relevance, credibility as well as consistency. The collection of the data was completed in less than two days and we managed to collect and organize information from chosen sources by means of a standard tool for extracting data. This tool gave us a systematic way of

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collecting and recording data on important variables, such as the impact of artificial intelligence on customer satisfaction, loyalty or retention in addition to problems and benefits related to AI implementation for Customer Relations Management. We have made sure that our findings can be relied on, validated and generalizable to the wider population by systematically and transparently collecting data.

Statistical Tools and Technique

The quantitative research methods we follow are some of the statistical research methods we use to analyze the data. Data are analyzed using various tests in SPSS (Statistical Package for Social Sciences) software.

Sampling Technique

The purpose of the sampling method is to represent the people targeted in the research, examine the pattern and then generalize it to the people. The sampling technique used in the research is simple random sampling. In simple random sampling, we used individuals as respondents without any restrictions, anyone can be used as a sample. This technique allows us to save time, as well as the cost-beneficial. The topic is related to the general public, so the simple random sampling is appropriate and effective.

Sample Size

The sample size I have chosen for this study is 101 respondents to ensure meaningful results. The respondent includes both male and female respondents.

Data Analysis

Descriptive Analyze

Frequency Tables

			Age:		
		Frequency	Percent	Valid Percent	Cumulative
Valid	1	90	89.1	89.1	Percent 89.1
vana	2 3	8 3	7.9 3.0	7.9 3.0	97.0 100.0
	Total	101	100.0	100.0	

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Interpretation

Age category 1: This group represents 18 - 25 year old individuals, comprising 90 responses, which accounts for 89.1% of the total responses.

Age category 2: This group represents 26 - 34 year old individuals, with 8 responses, making up 7.9% of the total responses.

Age category 3: This group represents 35 - 45 year old individuals, with 3 responses, constituting 3.0% of the total responses.

			Incor	ne:	
					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	62	61.4	61.4	61.4
	2	17	16.8	16.8	78.2
	3	22	21.8	21.8	100.0
	Total	101	100.0	100.0	

Interpretation

Income category 1 which are below 30k - 30k: This group represents the first income bracket, consisting of 62 responses, which accounts for 61.4% of the total responses.

Income category 2 which are 30k - 50k: This group represents the second income bracket, with 17 responses, making up 16.8% of the total responses.

Income category 3 which are 50k - 80k: This group represents the third income bracket, comprising 22 responses, constituting 21.8% of the total responses.

			Gend	ler:	
					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	45	44.6	44.6	44.6
	2	56	55.4	55.4	100.0
	Total	101	100.0	100.0	

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Interpretation

Gender category 1: This group represents one gender (female), with 45 responses, accounting for 44.6% of the total responses.

Gender category 2: This group represents another gender (male), with 56 responses, making up 55.4% of the total responses.

100.0

			Qualific	ation:		
					Cumulative	
		Frequency	Percent	Valid Percent	Percent	
Valid	1	5	5.0	5.0	5.0	
	2	16	15.8	15.8	20.8	
	3	80	79.2	79.2	100.0	

Ouglification.

Interpretation

Total

101

Qualification category 1: This group represents one type of qualification (matriculation), with 5 responses, accounting for 5.0% of the total responses.

100.0

Qualification category 2: This group represents another type of qualification (intermediate), with 16 responses, making up 15.8% of the total responses.

Qualification category 3: This group represents a third type of qualification (undergraduate), with 80 responses, constituting 79.2% of the total responses.

Reliability Analyze

Case Processing Summary											
		N		%							
Cases	Valid	101	100.0								
	Excluded ^a	0	.0								
	Total	101	100.0								
a. Listwise deletion ba	sed on all variables in the										
procedure.											

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Interpretation

In this analysis, there were a total of 101 cases considered.

All 101 cases were deemed valid and included in the analysis, accounting for 100% of the total cases.

There were no cases excluded from the analysis. Exclusion might occur due to missing data or other criteria specified in the analysis procedure.

The analysis utilized listwise deletion, meaning cases were excluded if they had missing data on any of the variables included in the analysis procedure.

Reliability Statis	tics		
	Cronbach's		
	Alpha	N of Items	
.908		16	

Interpretation

In this analysis, Cronbach's Alpha coefficient is calculated to be 0.908.

A Cronbach's Alpha of 0.908 suggests a high level of internal consistency among the items in the dataset. The analysis is based on 16 items.

Validity Analyze

Correlation

							Co	orrelati	ions								
										CRM	CRM	CRM	CRM	CRM	CRM	CRM	CRM
		AI1	AI2	AI3	Al4	AI5	AI6	AI7	AI8	1	2	3	4	5	6	7	8
Al1	Pearson	1	.562**	.384**	.330**	.502**	.343*	.300**	.270**	.485**	.199*	.376**	.320**	.150	.153	.132	.19
	Correlation Sig.		.000	.000	.001	.000	.000	.002	.006	.000	.046	.000	.001	.135	.127	.188	.05
	(2-tailed) N	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	10

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AI2	Pearson	.562*	1	.336**	.157	.451**	.425*	.320**	.272**	.428**	.265**	.275**	.319**	.202*	.285**	.186	.265
	Correlation	*					*										
	Sig.	.000		.001	.118	.000	.000	.001	.006	.000	.007	.005	.001	.043	.004	.063	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	10
AI3	Pearson	.384*	.336**	1	.443**	.648**	.385*	.303**	.435**	.329**	.355**	.410**	.466**	.255*	.313**	.278**	.362
	Correlation	*					*										
	Sig.	.000	.001		.000	.000	.000	.002	.000	.001	.000	.000	.000	.010	.001	.005	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	10
AI4	Pearson	.330*	.157	.443**	1	.384**	.261*	.526**	.453**	.360**	.458**	.336**	.535**	.462**	.249*	.424**	.375
	Correlation	*					*										
	Sig.	.001	.118	.000		.000	.008	.000	.000	.000	.000	.001	.000	.000	.012	.000	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	10
AI5	Pearson	.502*	.451**	.648**	.384**	1	.471*	.303**	.293**	.388**	.401**	.491**	.422**	.219*	.326**	.304**	.410
	Correlation	*					*										
	Sig.	.000	.000	.000	.000		.000	.002	.003	.000	.000	.000	.000	.028	.001	.002	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	-
AI6	Pearson	.343*	.425**	.385**	.261**	.471**	1	.410**	.451**	.440**	.252*	.354**	.334**	.297**	.102	.270**	.304
	Correlation	*															
	Sig.	.000	.000	.000	.008	.000		.000	.000	.000	.011	.000	.001	.003	.310	.006	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101	101	101	_	101	101	-	101	101	-
AI7	Pearson	.300*	.320**	.303**	.526**	.303**	.410*	1	.454**	.396**	.487**	.376**	.520**	.503**	.387**	.442**	.390
	Correlation	*					*										
	Sig.	.002	.001	.002	.000	.002	.000		.000	.000	.000	.000	.000	.000	.000	.000	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	10

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AI8	Pearson	.270*	.272**	.435**	.453**	.293**	.451*	.454**	1	.423**	.435*	.398**	.605*	* .323**	.293**	.329*	* .407
	Correlation	*					*										
	Sig.	.006	.006	.000	.000	.003	.000	.000		.000	.000	.000	.000	.001	.003	.001	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	10
CRM1	Pearson	.485*	.428**	.329**	.360**	.388**	.440*	.396**	.423**	1	.512**	.530**	.550**	.428**	.360**	.325**	.407
	Correlation	*					*										
	Sig.	.000	.000	.001	.000	.000	.000	.000	.000		.000	.000	.000	.000	.000	.001	.00
	(2-tailed)																
	N	101	-	101	-	101	101		101	101	101	101	101	101	101	101	10
CRM2	Pearson	.199*	.265**	.355**	.458**	.401**	.252*	.487**	.435**	.512**	1	.521**	.536**	.536**	.397**	.403**	.457
	Correlation																
	Sig.	.046	.007	.000	.000	.000	.011	.000	.000	.000		.000	.000	.000	.000	.000	.00
	(2-tailed)																
	N	101	_	101		101	101		101	101	101	101	101	101	101	101	10
CRM3	Pearson	.376*	.275**	.410**	.336**	.491**	.354*	.376**	.398**	.530**	.521**	1	.489**	.419**	.301**	.314**	.313
	Correlation	*					*										
	Sig.	.000	.005	.000	.001	.000	.000	.000	.000	.000	.000		.000	.000	.002	.001	.00
	(2-tailed)																
	N	101	_	101	_	101	101	_	101	101	101	101	101	101	101	101	10
CRM4	Pearson	.320*	.319**	.466**	.535**	.422**	.334*	.520**	.605**	.550**	.536**	.489**	1	.372**	.505**	.551**	.568
	Correlation	*															
	Sig.	.001	.001	.000	.000	.000	.001	.000	.000	.000	.000	.000		.000	.000	.000	.00
	(2-tailed)																
	N	101		101		101	101		101	101	101	101	101	101	101	101	10
CRM5	Pearson	.150	.202*	.255*	.462**	.219	.297*	.503**	.323**	.428**	.536**	.419**	.372**	1	.527**	.442**	.414
	Correlation		• • •	242	0.55		*										
	Sig.	.135	.043	.010	.000	.028	.003	.000	.001	.000	.000	.000	.000		.000	.000	.00
	(2-tailed)																

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	N	101	101	101	101	101	101	101 1	01	101	101	101	101	101	101	101	10
CRM6	Pearson	.153		.313**	.249*		.102		293**	.360**	.397**	.301**	.505**	.527**	1	.617**	.529
	Correlation																
	Sig.	.127	.004	.001	.012	.001	.310	.000 .0	003	.000	.000	.002	.000	.000		.000	.00
	(2-tailed)																
	N	101	101	101	101	101	101	101 1	.01	101	101	101	101	101	101	101	10
CRM7	Pearson	.132	.186	.278**	.424**	.304**	.270*	.442** .3	329**	.325**	.403**	.314**	.551**	.442**	.617**	1	.485
	Correlation						*										
	Sig.	.188	.063	.005	.000	.002	.006	.000 .0	001	.001	.000	.001	.000	.000	.000		.00
	(2-tailed)																
	N	101	101	101	101	101	101	101 1	.01	101	101	101	101	101	101	101	10
CRM8	Pearson	.193	.265**	.362**	.375**	.410**	.304*	.390** .4	407**	.407**	.457**	.313**	.568**	.414**	.529**	.485**	
	Correlation						*										
	Sig.	.053	.007	.000	.000	.000	.002	.000 .0	000	.000	.000	.001	.000	.000	.000	.000	
	(2-tailed)																
	N	101	101	101	101	101	101	101 1	.01	101	101	101	101	101	101	101	10
** Corre	alation is significa	nt at the O	11 lovel (2	tailed)													

^{**.} Correlation is significant at the 0.01 level (2-tailed).

Interpretation

In validity analyzes (correlation) our variables are Artificial Intelligence and Customer Relationship so both variables have 8 questions and I deleted 3 questions in both of them which are as follow:

First variable

AI4 AI7 AI8

Second Variable

CRM1 CRM2 CRM3

^{*.} Correlation is significant at the 0.05 level (2-tailed).

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Factor Analyze

KMO and Bartlett's Te	est	
Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.818
Bartlett's Test of Sphericity	Approx. Chi-Square	384.526
	df	45
	Sig.	.000

Interpretation

The KMO value of 0.818 indicates that the dataset has moderate to high sampling adequacy, suggesting that the variables are sufficiently correlated for factor analysis.

Bartlett's test, with a significant chi-square value and a very low p-value (Sig. = .000), supports the rejection of the null hypothesis that the variables are uncorrelated. This indicates that the dataset is suitable for factor analysis.

Rotated Componen	t Matrix ^a				
	Compo	nent			
		1		2	
Al1			.789		
AI2			.738		
AI3			.661		
AI5			.773		
AI6			.655		
CRM4	.678				
CRM5	.695				
CRM6	.832				
CRM7	.809				
CRM8	.719				
Extraction Method: Principa	lComponent Analysis.				
Rotation Method: Varimax	with				
Kaiser Normalization.					
a. Rotation converged in 3 it	terations.				

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Interpretation

Component 1 seems to be associated with variables related to Artificial Intelligence (AI), as indicated by the high loadings of AI1, AI2, AI3, AI5, and AI6 on this component.

Component 2 appears to be related to Customer Relationship Management (CRM), given the high loadings of CRM4, CRM5, CRM6, CRM7, and CRM8 on this component.

Regression Analyze

			Model Summary	
			Adjusted R	Std. Error of the
Model	R	R Square	Square	Estimate
1	.699ª	.488	.483	.68851

Interpretation

Interpreting the summary, the model with the predictor "artificial" has a moderate positive correlation (R = .699) with the outcome variable. Approximately 48.8% of the variance in the outcome variable is explained by the predictor(s). The Adjusted R Square suggests that the model is still relatively robust even after considering the number of predictors. The standard error of the estimate gives an idea of the typical error in predicting the outcome variable.

	ANOVA ^a							
Model		Sum of Squares	df	Mean Square	F	Sig.		
1	Regression	44.728	1	44.728	94.354	.000 ^b		
	Residual	46.931	99	.474				
	Total	91.659	100					
a. Depen	dent Variable: Consumer							
b. Predic	tors: (Constant), artificial							

Interpretation

In summary, the ANOVA table shows that the regression model is highly significant (p < .001), indicating that the predictor variable(s) included in the model significantly explain the variance in the dependent variable "Consumer".

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			Coefficie	ents		
		Standardized				
		Unstandardized C	oefficients	Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	.557	.195		2.860	.005
	artificial	.730	.075	.699	9.714	.000
a. Depend	lent Variable: Consumer					

Interpretation

In summary, the coefficients table shows that the predictor variable "artificial" has a significant positive effect on the dependent variable "Consumer", with a coefficient of .730 in unstandardized terms and .699 in standardized terms.

CONCLUSION AND RECOMMENDATION

Conclusion

The conclusion of this article is our variables are two and they got 8 questions for each variable in which we select just 5 for each coz of 3 questions are which are not necessary in this article, so we made a google form of questioner and we need 100 responses coz we are doing quantitative approach so we need responses in quantity when we got 100 responses so we start analyzing and as I told above we select 5 questions from each variable and then we start analyzing in first we have done descriptive analyze in which we found that who are higher in numbers I mean in age, income, gender, and qualification. So in age we are targeted 18 to 45 in which we found the majority of respondents, accounting for 89.1% of the total responses, fall into the 18-25 age group. This suggests that the surveyed population is predominantly comprised of younger individuals. And the 26-34 age group represents a smaller portion of the respondents, with 7.9% of the total responses. And the 35-45 age group constitutes the smallest proportion of respondents, with only 3.0% of the total responses. In income we targeted below 30k to 80k in which we found The majority of respondents, accounting for 61.4% of the total responses, fall into the income bracket below 30k - 30k.

This suggests that a significant portion of the surveyed population has an income within this range. And The second income bracket, ranging from 30k to 50k, represents a smaller proportion of respondents, with 16.8% of the total responses. The third income bracket, ranging from 50k to 80k, constitutes a slightly higher proportion of respondents compared to the second bracket, with 21.8% of the

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total responses. In gender we targeted both genders in which we found Male respondents make up the majority, comprising 55.4% of the total responses, while female respondents account for 44.6%. In qualification we targeted matriculation, intermediate, and undergraduate in which we found The majority of respondents, comprising 79.2% of the total responses, hold undergraduate qualifications. This suggests that the surveyed population is predominantly comprised of individuals with at least an undergraduate level of education. Intermediate qualification holders represent a smaller portion of respondents, making up 15.8% of the total responses. Matriculation qualification holders are the least represented group, accounting for only 5.0% of the total responses. In reliability analyzes we analyze case processing summary im which we found All 101 cases considered in the analysis were deemed valid and included, accounting for 100% of the total cases. This indicates that there were no cases excluded from the analysis due to missing data or any other specified criteria. And then we analyze reliability statistics in which we found The calculated Cronbach's Alpha coefficient is 0.908, which indicates a high level of internal consistency among the items in the dataset. A Cronbach's Alpha value closer to 1.0 suggests greater internal consistency, indicating that the items in the dataset are highly correlated with each other, measuring the same underlying construct effectively. The analysis is based on 16 items, and with a Cronbach's Alpha coefficient of 0.908, it suggests that these items are highly reliable in measuring the intended construct. In validity analyze we found corelation where we select just 5 questions for each variable coz 3 questions are not necessary. In factor analyzes we first analyze KMO and Bartlett's Test in which we found The KMO value of 0.818 suggests that the dataset has moderate to high sampling adequacy. This indicates that the variables included in the dataset are sufficiently correlated to proceed with factor analysis. Additionally, Bartlett's test resulted in a significant chi-square value and a very low p-value (Sig. = .000), indicating strong evidence against the null hypothesis that the variables are uncorrelated. This further supports the suitability of the dataset for factor analysis. And secondly we analyze Rotated Component Matrix in which we found Component 1 is associated with variables related to Artificial Intelligence (AI), as indicated by the high loadings of Al1, Al2, Al3, Al5, and Al6 on this component. This suggests that these variables are strongly correlated and measure similar aspects of Artificial Intelligence within the dataset. Component 2 appears to be related to Customer Relationship Management (CRM), given the high loadings of CRM4, CRM5, CRM6, CRM7, and CRM8 on this component.

These variables are strongly correlated with each other and likely measure similar aspects of Customer Relationship Management within the dataset. In regression analyze we analyze the model summary in which we found The model with the predictor "artificial"

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has a moderate positive correlation (R = .699) with the outcome variable. This indicates that as the predictor "artificial" increases, the outcome variable tends to increase as well, but not extremely strongly. Approximately 48.8% of the variance in the outcome variable is explained by the predictor(s). This suggests that the predictor "artificial" accounts for a significant portion of the variability in the outcome variable, indicating its importance in predicting the outcome. The Adjusted R Square suggests that the model is still relatively robust even after considering the number of predictors. This indicates that the model is still effective at explaining the variability in the outcome variable, even when accounting for the complexity introduced by multiple predictors. The standard error of the estimate gives an idea of the typical error in predicting the outcome variable. A lower standard error suggests that the model's predictions are more accurate, while a higher standard error indicates greater variability in the predictions. In ANOVAa analyzes we found the interpretation of the ANOVA table is that the regression model, which includes predictor variable(s), significantly explains the variance observed in the dependent variable "Consumer". This suggests that the predictor variable(s) have a notable impact on the "Consumer" variable, contributing meaningfully to its variation. Therefore, the model is considered highly significant, with the probability of this significance being less than 0.001. In Coefficients analyze we found that the coefficients table is that the predictor variable "artificial" has a significant positive effect on the dependent variable "Consumer". This is indicated by the coefficient values of 0.730 in unstandardized terms and 0.699 in standardized terms. These coefficients suggest that for every unit increase in the "artificial" predictor variable, the "Consumer" variable is expected to increase by 0.730 units in unstandardized terms, or 0.699 standard deviations in standardized terms. Therefore, "artificial" is considered a meaningful predictor in explaining variations in the "Consumer" variable. In the end our analyzing are done and we got satisfied result.

Recommendation

Leveraging Artificial Intelligence (AI) for Enhanced Organizational Practices

Organizations should adopt AI technologies, particularly in areas like customer relationship management (CRM), marketing, and operational efficiencies. By utilizing AI, businesses can improve customer loyalty, optimize decision-making processes, and enhance data-driven personalization strategies. This adoption should be accompanied by adequate staff training to overcome technical challenges and ethical considerations in implementation.

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Emphasizing Customer-Centric Approaches

Customer satisfaction, loyalty, and trust are paramount in today's competitive environment. Companies should prioritize CRM strategies that cater to the needs of diverse demographics, including Generation Z. These strategies should integrate insights from big data to create customized solutions and maintain a competitive edge.

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