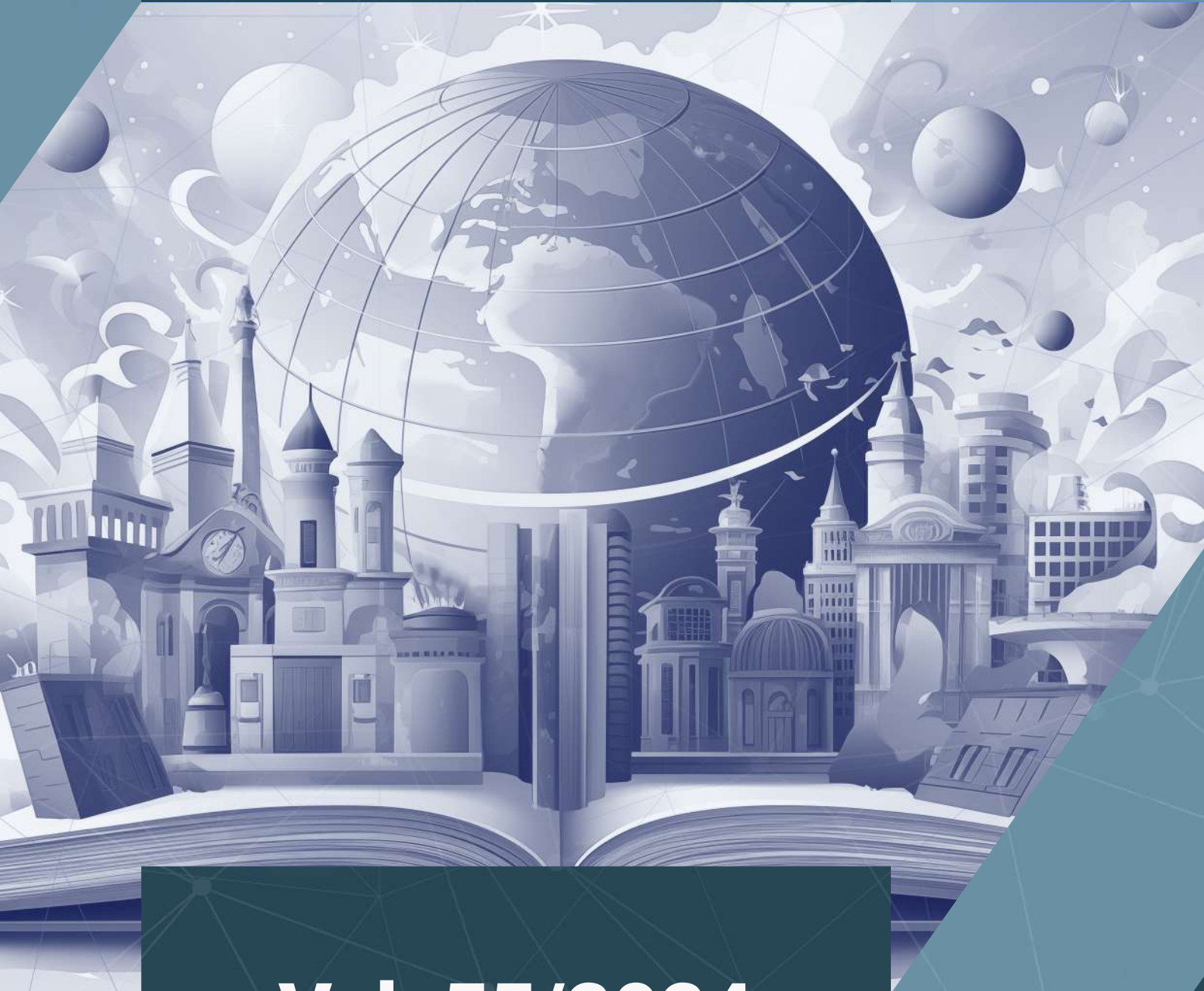




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Artificial Intelligence in Marketing Communication: A Comprehensive Exploration of the Integration and Impact of AI

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Abstract. This study investigates the transformative impact of artificial intelligence (AI) on marketing communications through an evaluation research approach. Focused on enhancing personalization, efficiency, and strategic insight, the study explores AI's applications in content creation, customer service, social media, influencer marketing, and predictive analytics. The results reveal a paradigm transition in customer engagement and behavior analysis, highlighting AI's role in providing profound insights and facilitating real-time interactions. Personalized marketing and targeted advertising have evolved, with AI analyzing vast datasets to craft tailored messages, significantly enhancing communication relevance. AI's impact extends to content creation and curation, accelerating processes through natural language generation and improving content personalization. Moreover, AI driven chatbots redefine customer service, providing 24/7 personalized support and actively contributing to marketing strategies. Social media and influencer marketing benefit from AI's optimization of content delivery, personalization, and campaign impact measurement. The synergy between AI and predictive analytics anticipates consumer behavior, enabling precise targeting and optimizing the customer journey. The study concludes with implications for businesses, advocating strategic AI integration for sustained growth, and emphasizes the necessity of staying attuned to emerging AI innovations in future research. This research serves as a roadmap, guiding businesses toward successfully navigating the digital era's evolving marketing communications view.

Keywords. Artificial Intelligence, Marketing Communications, AI-driven Strategies, Customer Engagement.

A. Introduction

1. Background and Context

Marketing communication is essential to a business's strategy to engage with its target audience, promote its offerings, and establish its brand presence. It involves using various tools, channels, and practices to communicate effectively with potential and existing customers. This communication aims to deliver clear, compelling messages about the brand or product to the appropriate audience, ensuring optimal timing and medium for maximum impact. Understanding the target market's needs, preferences, and behaviors is crucial in crafting messages that resonate and appeal directly to them [1], [2], [3]. Marketing communication is broad and integrates elements such as advertising, public relations, sales promotions, direct marketing, digital marketing, social media, and personal selling. Advertising, one of the more

traditional forms, pays for space or time in various media to promote a product, service, or brand, encompassing everything from TV and radio ads to online advertisements. Public relations fosters a positive brand image and manages public perception through media relations, events, and crisis communication. On the other hand, sales promotions are short-term strategies designed to boost immediate sales through incentives like discounts, contests, and special offers [4], [5], [6]. Direct marketing involves contacting consumers via email, postal mail, telemarketing, and SMS, offering a more personalized communication channel. In the digital area, marketing communication has expanded to include digital marketing strategies that leverage the Internet and social media platforms to reach and engage with consumers. This includes tactics like search engine marketing, content marketing, influencer collaborations, and social media platforms to build community and promote content or products [7], [8]. Personal selling, another facet, entails face-to-face interaction with customers, particularly common in business-to-business scenarios or high-value retail settings, allowing for detailed product demonstrations and discussions. Effective marketing communication involves disseminating information, storytelling, creating emotional connections, and nurturing consumer relationships. It requires maintaining consistency across all channels to ensure the brand message is clear and cohesive, reinforcing the brand's identity and core values [9], [10], [11]. In the contemporary digital view, marketing communication has become increasingly data-driven, emphasizing analytics to understand consumer behavior, gauge campaign effectiveness, and fine-tune strategies for improved engagement and conversion rates. Overall, marketing communication represents a holistic approach that combines various tactics and channels to connect with audiences, convey brand messages, and achieve business goals, continually evolving to mirror technological advancements, transitions in media consumption, and changing consumer preferences. AI has become integral to marketing communications, transforming how businesses interact with their audiences and personalize their marketing efforts. AI's role in marketing communications is multifaceted, offering significant advantages and opening new possibilities for engaging consumers more effectively and efficiently [12]. One of the primary ways AI is used in marketing communications is by personalizing messages. By analyzing vast amounts of data on consumer behavior, preferences, and engagement history, AI algorithms can tailor communications to the individual level, ensuring that the content is relevant and appealing to each recipient. This level of personalization enhances the customer experience, increases engagement rates, and boosts the effectiveness of marketing campaigns [13], [14]. AI also plays a crucial role in optimizing the timing and placement of marketing messages. By analyzing patterns in consumer online activity and engagement, AI can predict the optimal times to send messages across various channels, from email to social media, increasing the likelihood that the message will be seen and acted upon [15], [16]. Moreover, AI contributes to the content creation process. Tools powered by AI can assist in generating content ideas, headlines, and even entire pieces of content based on trends and past content performance. This speeds up the content creation process and ensures that the content is aligned with what is likely to resonate with the target audience [17], [18]. In terms of customer insights, AI is invaluable. It can sift through vast amounts of data from different sources to provide deep insights into customer behavior and preferences. These insights allow marketers to make informed decisions about their strategies and fine-tune their messaging for better results [19], [20]. AI also enhances the efficiency of marketing communications through automation. Tasks such as segmenting audiences, A/B testing, and even responding to customer inquiries can be automated with AI, allowing marketing teams to focus on more strategic tasks and reducing the time and resources required for routine activities [21]. Another advantage of AI in marketing communications is its ability to improve the customer journey through predictive analytics. By

predicting future consumer behavior based on past actions, AI can help businesses anticipate needs and preferences, delivering a more seamless and satisfying customer experience [22]. Furthermore, AI's capabilities in natural language processing enable the development of sophisticated chatbots and virtual assistants. These AI-powered tools can communicate with consumers humanly, providing instant responses to inquiries and support and enhancing customer service and engagement [23]. In advertising, AI is used to optimize ad targeting and placement, ensuring that marketing messages reach the most receptive audience, thus improving the return on investment for advertising campaigns. AI algorithms can analyze the performance of ads in real-time, making adjustments to improve effectiveness and efficiency [4]. The importance of AI in marketing communications cannot be overstated. It offers a range of advantages, from personalization and efficiency to deep customer insights and enhanced customer engagement. As AI technology continues to evolve, its role in marketing communications is set to become even more significant, enabling businesses to communicate with their audiences in more meaningful and impactful ways.

In the rapidly evolving digital view, where consumer behaviors and preferences constantly transition, marketing communication becomes crucial for businesses striving to stay relevant and impactful. As technological advancements continue to reshape how audiences interact with brands, the integration of AI emerges as a transformative force. AI's ability to analyze vast datasets and adapt and respond in real-time has increased marketing communication. This study searches into the dynamic interplay between AI and marketing communication, recognizing AI as the catalyst for innovation and efficiency in reaching, understanding, and engaging with the modern consumer. The integration of AI is not merely a technological upgrade; it signifies a fundamental transition in how businesses connect with their audiences, fostering more profound, personalized relationships. As we navigate this intersection of technology and communication, understanding the multifaceted impact of AI on marketing communications becomes imperative for businesses aspiring not only to survive but to thrive in the digital era.

2. Problem Statement and Research Questions

Integrating AI has introduced transformative possibilities in the dynamic view of marketing communications, reshaping how businesses understand and interact with their audiences. The study aims to address the following research questions to comprehend the multifaceted impact of AI on marketing communications.

- How do AI-driven behavior analysis and customer insights revolutionize the effectiveness of marketing communications?
- In what ways does AI contribute to personalized marketing and targeted advertising, and how does this impact the relevance and effectiveness of marketing communications?
- How does AI reshape content creation and curation within marketing communications, and what benefits does it bring to efficiency and effectiveness?
- In what ways do AI-driven chatbots transform customer service within marketing communications, and how do they contribute to personalized, efficient, and scalable interactions?
- How does AI integration with social media and influencer marketing redefine marketing communications, particularly optimizing content delivery, personalization, and campaign analysis?
- How does integrating AI with predictive analytics impact marketing communications, specifically regarding customer segmentation, targeting, and customer journey optimization?

3. Objectives, Purpose, and Significance of the Study

This research's central goal is to systematically evaluate AI's transformative impact on marketing communications, aiming to offer nuanced insights into its multifaceted applications. Specifically, the study sets out to:

- **Examine AI's Augmentation of Marketing Communications:** Investigate how AI contributes to heightened personalization, efficiency, and strategic insight within marketing communications.
- **Analyze AI's Role Across Diverse Marketing Facets:** Explore the multifaceted applications of AI in key marketing areas, including content creation, customer service, social media, and predictive analytics.
- **Evaluate the Implications of AI Driven Strategies:** Assess the tangible effects of AI-driven strategies on critical metrics such as customer engagement, satisfaction levels, and the cultivation of brand loyalty.
- **Optimization of Marketing Operations Through AI:** Investigate how AI optimizes routine tasks within marketing operations, affording marketers the bandwidth to concentrate on more strategic endeavors.
- **Emphasize the Strategic Significance of Predictive Analytics:** Highlight and elucidate the crucial role of predictive analytics in shaping proactive marketing strategies that align with dynamic market conditions.

This study aims to explore and address these research questions comprehensively. By doing so, the study aims to provide in-depth insights into the evolving view of marketing communications in the era of AI integration. The significance of this research extends beyond theoretical exploration; it offers actionable knowledge for businesses seeking to harness the potential of AI for strategic and competitive advantage in the ever-evolving digital marketing milieu.

4. Rationale and Practical Implications

Despite the advancements in marketing communication strategies facilitated by AI, a critical gap exists in understanding the nuanced impact and optimal integration of AI technologies. This study seeks to bridge this gap by exploring the multifaceted applications of AI in marketing communications, uncovering the transformative possibilities, and providing actionable insights for businesses navigating the complexities of the digital view. This study assumes paramount importance within the rapidly evolving view of marketing communication practices. In an era where traditional methods, though effective, struggle to meet the dynamic demands of the digital age, the integration of AI heralds a paradigm transition. Beyond mere optimizations in current practices, this study positions itself at the forefront of uncovering future innovations that redefine how businesses engage with their audiences. The study's practical implications extend beyond being a mere choice for competitiveness; they underscore a strategic necessity for businesses. Embracing AI technologies emerges not as an alternative but as an imperative strategy for successfully navigating the complexities of the digital view. The study's findings offer a comprehensive roadmap for businesses, guiding them to adapt and thrive in the contemporary technological milieu. The implications span enhancing the customer experience through personalized communication, the streamlined efficiency of marketing operations, and formulating data-driven, proactive strategies. This study serves as a business compass, illuminating the path toward sustained growth and relevance. By delving into the transformative impact of AI on marketing communications, it equips businesses with actionable insights to not only meet but exceed the evolving expectations of their digitally connected audiences.

5. Methodology Preview

This research adopts an evaluation research approach to search into the transformative impact of AI on marketing communications. Focusing on identifying and analyzing the diverse applications of AI in marketing communications, including its roles in content creation, customer service, social media, influencer marketing, and predictive analytics, the collected data from the literature is systematically analyzed to unveil patterns, trends, and correlations related to AI's impact on marketing communication practices, with a specific emphasis on the contributions of AI-driven personalization and data analysis to the effectiveness and relevance of marketing strategies. The study concentrates on two key areas: enhancing customer engagement, satisfaction, and brand loyalty through AI-driven strategies and automating routine tasks to enable marketers to focus on more strategic endeavors. By synthesizing the findings, the research underscores the crucial role of AI in the evolution of marketing communications, offering valuable insights for academics, practitioners, and businesses. The implications and recommendations section explores the practical applications of the findings, guiding the embracement of AI technologies to achieve sustained growth and competitiveness in the rapidly evolving digital world. This evaluation research methodology contributes to a nuanced understanding of AI's transformative influence on marketing communications, catering to a diverse audience of academics, practitioners, and businesses seeking to harness AI for enhanced marketing effectiveness.

6. Scope and Limitations

In exploring the transformative impact of AI on marketing communications, it's important to delineate the scope and acknowledge certain limitations of this research. This study focuses primarily on elucidating the multifaceted applications of AI in marketing, including its roles in content creation, customer service, social media, influencer marketing, and predictive analytics. However, due to the dynamic nature of AI and marketing communications, it's essential to recognize that the view continually evolves, and the study may only encompass some emerging facets. Furthermore, while every effort is made to provide a comprehensive evaluation, the study may face constraints in the available literature and data sources.

B. Literature Review

Before the advent of AI in marketing communications, the view was markedly different, characterized by broader, less personalized strategies that aimed to reach large audience segments with the same message. This one-size-fits-all approach often resulted in less efficient campaigns, as the lack of personalization and precise targeting meant that messages could easily miss the mark or fail to engage the intended audience effectively. Marketers relied heavily on traditional methods such as print advertisements, television commercials, and radio ads, which, while effective to a degree, did not allow for the same level of interaction or engagement as digital platforms. The analysis of consumer behavior was more manual and time-consuming, based on surveys and focus groups, which provided valuable insights but needed more immediacy and depth of data than AI can offer [24], [25], [26]. Introducing AI into marketing communications marked a crucial transition in how businesses engage with consumers. The initial foray into using AI was met with excitement and skepticism, as the potential for enhanced personalization and efficiency was weighed against concerns over privacy and the impersonality of machine-driven communication. However, the benefits became increasingly apparent as AI technologies matured and marketers became more adept at integrating AI tools into their strategies. AI-enabled marketers to analyze vast amounts of data rapidly, uncovering insights into consumer behavior, preferences, and previously inaccessible

trends. This data-driven approach allowed for more targeted and personalized communication, where messages could be tailored to individual consumers based on their interactions, interests, and behaviors [26], [27], [28], [29]. The importance of using AI in marketing communications has grown significantly as businesses recognize its many advantages. AI-enhanced personalization has emerged as a critical factor in improving engagement rates and customer satisfaction. By delivering content tailored to the individual's preferences and needs, businesses can foster a deeper connection with their audience, enhancing brand loyalty and driving conversions. AI also facilitates more effective segmentation, enabling marketers to identify distinct consumer groups and tailor messages to resonate with each segment's unique characteristics [30], [31], [32], [33]. Moreover, AI-driven analytics provide marketers with real-time feedback on the performance of their campaigns, allowing for rapid adjustments and optimization. This agility ensures that marketing efforts are more responsive to consumer behavior and cost-effective, as resources can be allocated to the most successful strategies. Predictive analytics, another facet of AI, empowers businesses to anticipate consumer needs and trends, enabling them to stay ahead of market transitions and align their communications accordingly [34], [35], [36]. Integrating AI into marketing communications has transformed the field from its pre AI days of broad, generic messaging to a highly sophisticated, data-driven discipline emphasizing personalization, efficiency, and real-time engagement. The use of AI has become indispensable in crafting marketing strategies that are not only more responsive to consumer needs but also more effective in achieving business objectives. As AI technology evolves, its role in marketing communications is set to deepen further, offering even more innovative ways for businesses to connect with their audiences.

C. Methodology

This study adopts an evaluation research approach to investigate the transformative impact of AI on marketing communications. The research is designed to systematically assess the integration of AI technologies and their implications for enhancing personalization, efficiency, and strategic insight in engaging target audiences. The research employs a comprehensive review of existing literature to identify and analyze the multifaceted applications of AI in marketing communications. This includes an in-depth exploration of AI's role in content creation and curation, customer service, social media, influencer marketing, and the utilization of predictive analytics. The collected data is systematically analyzed to discern patterns, trends, and correlations related to the impact of AI on marketing communication practices. Particular emphasis is placed on evaluating how AI-driven personalization and data analysis contribute to the effectiveness and relevance of marketing strategies. The study focuses on two main areas: enhancing customer engagement, satisfaction, and brand loyalty through AI-driven strategies and automating routine tasks to allow marketers to concentrate on more strategic endeavors. Additionally, the role of predictive analytics in enabling proactive marketing strategies is thoroughly examined. The findings are synthesized to underscore the importance of AI in the evolution of marketing communications. The evaluation research aims to optimize current practices and shed light on the potential for future innovations in the field. The methodology examines the practical implications of the findings for businesses, practitioners, and academics. Recommendations are provided for embracing AI technologies to stay competitive and achieve sustained growth in the rapidly evolving digital view. Through this evaluation research methodology, the study contributes to a deeper understanding of AI's crucial role in reshaping marketing communications, offering valuable insights for academics, practitioners, and businesses seeking to leverage AI for enhanced marketing effectiveness.

D. Results

1. *Customer Insights and Behavior Analysis*

AI has revolutionized how businesses understand and interact with customers, particularly in marketing communications. By leveraging AI, companies can now search deeper into customer insights and behavior analysis, allowing for a level of personalization and engagement that was previously unattainable. This transformative approach to marketing communications reshapes how brands connect with their audiences, making interactions more meaningful, targeted, and practical [24], [26], [37]. At the base of this revolution is the ability of A.I. to process and analyze vast quantities of data at an unprecedented speed and accuracy. Every interaction a customer has with a brand, whether browsing a website, engaging with social media, or making a purchase, generates a wealth of data. A.I. systems utilize advanced algorithms and machine learning to sift through this data, identifying patterns, trends, and preferences that are invisible to the human eye. This deep analysis goes beyond basic demographic information to encompass behavioral data, such as purchase history, content engagement, and online browsing behavior, providing a holistic view of the customer [38], [39]. This understanding of customer behavior and preferences enables marketers to tailor their communications in a highly personalized manner. For example, AI can predict which products a customer will likely be interested in based on their past behavior and then deliver targeted marketing messages featuring these products. This increases the relevance of the communication and enhances the customer's experience with the brand, leading to higher engagement rates and increased loyalty [30], [40]. AI also facilitates real-time interaction and responsiveness in marketing communications. Through chatbots and virtual assistants powered by natural language processing, businesses can offer immediate, 24/7 support and engagement, answering queries, providing recommendations, and even facilitating transactions. These AI-driven interactions are becoming increasingly sophisticated, capable of delivering personalized advice and solutions that closely mimic human interaction, further enhancing the customer experience [41], [42], [43]. Moreover, AI-driven sentiment analysis provides invaluable insights into how customers feel about a brand, product, or service by analyzing social media posts, reviews, and feedback. This allows companies to gauge public sentiment, identify areas for improvement, and adjust their communication strategies accordingly [44], [45]. Integrating AI into marketing communications has given businesses unprecedented insights into customer behavior and preferences. By harnessing the power of AI for behavior analysis and customer insights, companies can create more personalized, engaging, and effective marketing strategies. This benefits the business in terms of increased engagement and sales and enhances the customer experience, fostering a deeper connection between the brand and its audience. As AI technology continues to evolve, its impact on marketing communications and customer insights is expected to grow, further transforming the view of customer engagement and brand interaction.

2. *Personalized Marketing and Targeted Advertising*

In the dynamic world of marketing communications, AI has become fundamental in driving personalized marketing and targeted advertising strategies. This integration of AI technologies has ushered in a new era where marketing messages and advertisements are no longer generic broadcasts but carefully curated content tailored to individual consumers' preferences, behaviors, and needs [43], [46]. AI's profound impact on personalized marketing begins with its ability to analyze vast datasets, glean insights into unique customer profiles. AI can dissect and understand complex consumer behavior patterns through advanced algorithms and machine learning, including past purchases, search history, content interactions,

and social media activity. This deep dive into the consumer psyche enables marketers to craft highly personalized messages and offers that resonate on a personal level, significantly enhancing the relevance and effectiveness of marketing communications [47], [48], [49]. The power of AI in personalized marketing extends to content customization. By understanding the nuances of consumer preferences, AI can assist in creating or suggesting content that aligns with individual interests and needs. Whether it's personalized email marketing campaigns, customized website experiences, or tailored content recommendations, AI ensures that every touchpoint with the consumer is meaningful and relevant, fostering a stronger connection between the brand and its audience [50], [51], [52]. Targeted advertising, another critical component of modern marketing communications, has been transformed by AI's precision and efficiency. AI algorithms excel at segmenting audiences based on a multitude of criteria, from demographic information to nuanced behavioral signals. This segmentation enables advertisers to deliver ads specifically designed to appeal to each segment, increasing the likelihood of engagement and conversion. Moreover, AI's real-time processing capabilities allow for dynamic ad targeting, where advertisements are served based on immediate consumer behavior or context, making them highly relevant and timely [53], [54]. AI has fundamentally reshaped the view of personalized marketing and targeted advertising within marketing communications. By harnessing the power of AI, businesses can deliver marketing messages and advertisements that are highly relevant, personalized, timed, and positioned for maximum impact. This transition towards more intelligent, data-driven marketing strategies benefits businesses through improved efficiency and effectiveness and enhances the consumer experience, making marketing communications more engaging, relevant, and valuable. As AI technology continues to evolve, its role in personalizing marketing and advertising efforts is set to deepen, further revolutionizing how brands communicate with their audiences.

3. Content Creation and Curation

AI is dramatically reshaping the fields of content creation and curation within marketing communications, offering innovative tools that enhance both the efficiency and effectiveness of content strategies. As brands strive to meet the ever-growing demand for fresh, relevant, and engaging content, AI has emerged as a crucial ally, enabling marketers to deliver compelling narratives that resonate deeply with their target audiences [55]. In content creation, AI's capabilities are multifaceted. Natural language generation technologies, a subset of AI, are now sophisticated enough to produce coherent, engaging written content that aligns with a brand's voice and messaging objectives. From generating product descriptions and blog posts to crafting news stories and reports, AI can significantly accelerate the content creation, allowing marketers to maintain a consistent flow of content. This is particularly valuable in today's fast-paced digital environment, where quickly producing high-quality content can provide a competitive edge [18], [56]. Beyond generating text, AI tools are also used to create visual content, such as images, videos, and infographics. By analyzing trends and performance data, AI can recommend the types of visual content most likely to engage specific audience segments and even assist in the creation process by suggesting themes, layouts, and color schemes that align with brand guidelines and audience preferences [57], [58]. Content curation is another area where AI is making a substantial impact. AI algorithms can sift through vast web content to identify pieces relevant to a brand's audience, considering topicality, engagement levels, and sentiment. This allows marketers to curate a mix of internal and external content that keeps their audience informed and engaged without the prohibitive time investment that manual curation requires [59], [60], [61]. AI-driven content curation is not just about aggregating content; it's also about personalization. AI can tailor content feeds to individual

users based on their past interactions, preferences, and behavior, ensuring that each content they encounter is highly relevant and engaging. This level of personalization enhances the user experience and strengthens the relationship between the brand and its audience, fostering loyalty and trust [61]. Integration of AI into content creation and curation is revolutionizing marketing communications. AI empowers brands to produce diverse content more efficiently, from written articles and blog posts to dynamic visual content. It also enables sophisticated curation strategies that deliver personalized content experiences to each user, enhancing engagement and building deeper connections with the audience. As AI technologies continue to advance, their role in content strategy is set to become even more central, offering new possibilities for creativity, personalization, and engagement in marketing communications.

4. Chatbots and Customer Service

Integrating AI into marketing communications has notably transformed customer service, with chatbots emerging as a critical innovation in this evolution. These AI-driven virtual assistants are redefining the view of customer interactions, offering real-time, efficient, and personalized support that aligns with modern consumer expectations for quick and convenient service [30], [62]. AI-powered chatbots are designed to simulate human-like conversations, enabling businesses to engage with customers across various digital platforms around the clock. This capability is precious in today's fast-paced digital environment, where consumers expect immediate responses to their inquiries. By leveraging natural language processing and machine learning, chatbots can understand and process customer queries, provide accurate responses, and even execute tasks, ranging from answering frequently asked questions to facilitating transactions and booking appointments [63], [64], [65]. One of the most significant advantages of AI chatbots in customer service is their ability to offer personalized interactions. By accessing and analyzing customer data, chatbots can tailor their responses to each individual's context and history with the brand. This level of personalization enhances the customer experience, making interactions feel more relevant and engaging. For instance, a chatbot can recommend products based on a customer's past purchases or browsing behavior, provide personalized discounts, or remind customers of items left in their online shopping cart [66], [67], [68]. The role of chatbots in marketing communications extends beyond customer service to encompass customer engagement and brand interaction. Chatbots can initiate conversations, share relevant content, and inform customers about new products, services, or promotions, actively contributing to the marketing strategy. This proactive approach to customer engagement fosters a dynamic relationship between the brand and its customers, encouraging ongoing interaction and deepening customer loyalty [30], [69], [70]. AI chatbots have become indispensable in marketing communications, particularly in customer service. They offer a blend of efficiency, personalization, and scalability that traditional customer service channels struggle to match. By providing immediate, 24/7 support tailored to each customer's needs, chatbots enhance the customer experience, strengthen brand loyalty, and contribute to a more dynamic and engaging brand-customer relationship. As AI technology continues to evolve, the capabilities of chatbots will expand further, offering even more sophisticated and seamless interactions that will continue to transform the customer service view.

5. Social Media and Influencer Marketing

Integrating AI into social media and influencer marketing has significantly transformed the view of marketing communications, offering novel and efficient ways to engage audiences, personalize content, and measure the impact of marketing efforts. This fusion

of AI with social media strategies and influencer partnerships has enabled brands to leverage data-driven insights, automate processes, and enhance the overall effectiveness of their campaigns [71], [72], [73]. AI's role in social media marketing is multifaceted. One of the primary applications is in the optimization of content delivery. By analyzing user data, including engagement patterns, preferences, and behaviors, AI algorithms can determine the best times to post content and the types of content that resonate with different audience segments and even predict trends that can inform content creation. This ensures the content reaches a broader audience and engages users more effectively by aligning with their interests and online habits [43], [74]. Furthermore, AI enhances the personalization of social media interactions. Through sophisticated analysis of individual user data, AI can tailor content, advertisements, and messages to match each user's unique preferences. This level of personalization increases engagement rates and strengthens the connection between the brand and its audience, making marketing communications more relevant and impactful [38], [75], [76]. In the area of influencer marketing, AI is revolutionizing the way brands identify and collaborate with influencers. AI-powered tools can use vast social media data to identify influencers whose followers align with the brand's target audience. These tools assess engagement rates, audience demographics, and content relevance to ensure the chosen influencers can effectively reach and influence the brand's desired audience. This data-driven approach to influencer selection maximizes the ROI of influencer marketing campaigns by ensuring alignment between the brand's objectives and the influencer's audience [77], [78], [79]. AI also plays a crucial role in measuring and analyzing the performance of social media and influencer marketing campaigns. Advanced analytics powered by AI provide deep insights into the effectiveness of marketing efforts, tracking metrics such as reach, engagement, conversion rates, and sentiment analysis. These insights allow marketers to fine-tune their strategies in real time, optimizing campaigns for better performance and ensuring that marketing resources are allocated efficiently [80]. Moreover, AI technologies detect emerging trends and conversations on social media platforms, allowing brands to capitalize on these trends in marketing communications. This proactive approach ensures that the brand remains relevant and can engage with audiences on current topics, further enhancing brand visibility and engagement [81]. AI with social media and influencer marketing has brought about a paradigm transition in marketing communications. By leveraging AI for content optimization, personalization, influencer selection, and campaign analysis, brands can achieve higher engagement and effectiveness in their marketing efforts. This data-driven approach enhances the customer experience and provides valuable insights that inform strategic decisions, ensuring marketing communications are more dynamic, responsive, and impactful in the digital age.

6. Predictive Analytics

Integrating AI with predictive analytics has marked a significant evolution in marketing communications, offering businesses unprecedented capabilities to anticipate consumer behavior and tailor their strategies for maximum impact. This synergy between AI and predictive analytics enables marketers to analyze historical data and forecast future trends, consumer actions, and market dynamics, enhancing decision-making and strategic planning [52], [82]. Predictive analytics, powered by AI, involves using data, statistical algorithms, and machine learning techniques to identify the likelihood of future outcomes based on historical data. In marketing communications, businesses can predict consumer responses to various marketing stimuli, identify potential opportunities for engagement, and foresee market transitions before they occur. This forward-looking approach allows for a more proactive and anticipatory marketing strategy, moving beyond reactive measures to a more strategic, informed

positioning [83], [84]. One of the critical applications of AI-driven predictive analytics in marketing communications is customer segmentation and targeting. By analyzing past consumer behavior and engagement patterns, AI can predict which audience segments will respond positively to specific messages, offers, or products. This enables marketers to tailor their communications more precisely, enhancing the relevance and effectiveness of their campaigns and improving the overall customer experience [85], [86], [87]. Predictive analytics also plays a crucial role in optimizing the customer journey. By predicting the future actions of customers at different stages of their journey, marketers can design communications that guide consumers smoothly from awareness to consideration and ultimately to purchase and loyalty. This involves predicting potential drop-off points or areas of friction and preemptively addressing these through targeted communications, thereby enhancing the likelihood of conversion and retention [88], [89]. Combining AI and predictive analytics in marketing communications offers a powerful tool for understanding and anticipating consumer behavior. This capability enhances the personalization and effectiveness of marketing efforts and provides strategic insights that can drive business growth and competitiveness. As AI technologies and data analytics continue to advance, the role of predictive analytics in marketing communications is set to become even more central, offering ever more sophisticated tools for engaging with consumers in a dynamic and ever-changing marketplace.

E. Conclusion

In navigating the transformative intersection of AI and marketing communications, this study explored the multifaceted impact of AI technologies. As the dynamic view of marketing evolves amidst digital disruptions, this research, framed by a robust evaluation methodology, aims to unravel the intricate ways AI reshapes marketing communications and contributes to the overarching objectives of understanding, optimizing, and foreseeing the future of this vital business area. The study unfolded against the backdrop of the broad canvas of marketing communications, delineating its diverse elements and emphasizing the need for adaptation in the face of technological advancements. The exploration into the integration of AI revealed a paradigm transition, marking not just a technical upgrade but a fundamental redefinition of how businesses connect with their audiences.

AI's Role in Personalization and Efficiency: The results showcase AI's crucial role in enhancing customer insights and behavior analysis, revolutionizing the depth and scope of personalized communication. By dissecting vast datasets at remarkable speeds, AI offers businesses an unprecedented understanding of consumer behavior, allowing for highly tailored marketing strategies. The study affirms that AI-driven personalization heightens engagement and transforms the customer experience.

Revolutionizing Marketing Functions: From personalized marketing and targeted advertising to content creation and curation, AI emerges as a transformative force. The study highlights how AI's data-driven insights empower marketers to craft tailored messages, curate content, and optimize advertising strategies, increasing efficiency and effectiveness.

Innovative Customer Service through AI-Powered Chatbots: The integration of AI in customer service, mainly through chatbots, has redefined the conventional norms. Chatbots offer real-time, personalized interactions as efficient virtual assistants, enriching customer support experiences. The findings emphasize how this dynamic interaction contributes to problem-solving and proactive customer engagement.

Social Media and Influencer Marketing in the AI Era: AI's impact on social media and influencer marketing unveils a new era of content delivery optimization and personalized interactions. By harnessing data-driven insights, businesses can strategically position their content, maximize engagement, and measure campaign impact, signaling a departure from traditional marketing approaches.

Predictive Analytics: Shaping the

Future of Marketing Communications: Integrating AI with predictive analytics is a strategic tool for anticipating consumer behavior and optimizing the customer journey. The study reveals how businesses can leverage historical data and AI-driven predictions to create more targeted, effective campaigns and enhance customer experience. The practical implications of this research extend far beyond theoretical exploration. The study serves as a compass for businesses, guiding them to adapt and thrive in the contemporary technological milieu. Embracing AI technologies emerges not as an alternative but as an imperative strategy for successfully navigating the complexities of the digital view. The findings offer a comprehensive roadmap, illuminating the path toward sustained growth and relevance. Beyond these immediate insights, this research extends its impact to broader implications. The findings underscore the imperative for businesses to embrace AI not as a luxury but as a strategic necessity in the ever-evolving digital view. The transition from traditional methods to AI-driven strategies is not merely an option; it emerges as a pathway to sustained growth and relevance. In charting the course for future research, the dynamic nature of both AI and marketing communications prompts the recognition that this study provides a snapshot of a continuously evolving view. As AI technologies advance, new facets will undoubtedly emerge, necessitating ongoing exploration to stay abreast of innovations and their implications. This study resonates as a testament to the profound impact of AI on marketing communications, offering nuanced insights that transcend the immediate context. As businesses navigate the evolving demands of the digital era, the integration of AI emerges as a beacon, guiding them toward meaningful and impactful engagements with their audiences. This research is more than an exploration; it is a declaration of the transformative power of AI in shaping the future of marketing communications.

References

- [1] G. E. BELCH, M. A. BELCH: Advertising and Promotion : An Integrated Marketing Communications Perspective. *ISBN13: 9781260259315*, McGraw Hill, 2018.
- [2] M. A. CAMILLERI: Integrated Marketing Communications. In: Travel Marketing, Tourism Economics, and the Airline Product. Tourism, Hospitality & Event Management. *ISBN978-3-319-49848-5*, Springer, Cham, 2018.
- [3] L. EAGLE, B. CZARNECKA, S. DAHL, J. LLOYD: Marketing Communications, *ISBN9781003089292*, Routledge, 2020.
- [4] J. M. JUSKA, Integrated Marketing Communication: Advertising and Promotion in a Digital World, *ISBN 9780367436230*, Routledge, 2021.
- [5] B. T. SARON, S. STEFAN, M. DANIEL: Influence of Social Media on Migration and Integration Process. ECSM 2019 6th European Conference on Social Media. Academic Conferences and Publishing Limited, University of Brighton, UK 2019.
- [6] S. K. RAHAYU, F. N. FATIMA: Marketing Communication Strategy with E-Commerce. IOP Conf. Ser.: Mater. Sci. Eng., Nov. 2019.
- [7] V. ABRAHAM, J. JOSEPH: An Empirical Study on Direct Marketing as The Most Effective Form of Marketing in The Digitalized Marketing Environment. International Journal of Research Science and Management, ISSN:2349-5197, 6(1), Jan. 2019.
- [8] P. B. KEWAT, P. PANDA, A. K. MAHARANA: Influence of Direct Marketing and Conventional Advertisement on Buying Behaviour of Customers of Electronic Home Appliances. International Journal of Business and Emerging Markets, ISSN: 1753-6227, 15 (3), 287–306, Jan. 2023,

- [9] Y. HAMDAN, A. RATNASARI, A. SOFYAN, Y. YUNIATI: Personal Selling Skill in Building Interaction with Consumers. 2nd Social and Humaniora Research Symposium (SoRes 2019), Atlantis Press, Mar. 2020.
- [10] R. KURNIAWAN, S. SUHERMIN: Influence of Sales Promotion, Direct Marketing, and Personal Selling on Consumer Purchase Intention. *International Conference of Business and Social Sciences*, 3 (1), 186–195, Dec. 2023.
- [11] N. TODUA, B. VASHAKIDZE: The Use of Social Media Marketing in Personal Selling. *Globalization and Business*, ISSN: 2449 – 2612, 121–129, Dec. 2020.
- [12] L. WEN, W. LIN, M. GUO: Study on Optimization of Marketing Communication Strategies in the Era of Artificial Intelligence. ISSN: 1875-905X, *Mobile Information Systems*, Oct. 2022.
- [13] R. D. SANTY, M. I. HABIBILLAH, Y. R. DIMYATI, V. S. S. NOFIA, S. LUCKYARDI, T. V. L. GAOL, D. OKTAFIANI: Artificial Intelligence as Human Behavior Detection for Auto Personalization Function in Social Media Marketing. *International Journal of Research and Applied Technology (INJURATECH)*, ISSN 2807 – 7229, 1 (1), 2021.
- [14] A. PEARSON: Personalisation The Artificial Intelligence Way. *Journal of Digital & Social Media Marketing*, ISSN : 2050-0084, 7(3), 245–269, Jan. 2019.
- [15] C. CAMPBELL, S. SANDS, C. FERRARO, H. Y. (JODY) TSAO, A. MAVROMMATIS: From Data to Action: How Marketers Can Leverage AI. ISSN: 0007-6813, *Business Horizons*, 63 (2), 227–243, Mar. 2020.
- [16] H. LI: Special Section Introduction: Artificial Intelligence and Advertising. *Journal of Advertising*, 48 (4), 333–337, ISSN: 0091-3367, Aug. 2019.
- [17] U. KOSE, S. SERT: Intelligent Content Marketing with Artificial Intelligence. *Scientific Cooperation for the Future in the Social Sciences Usak International Conference*, 2016.
- [18] U. KOSE and S. SERT: Improving Content Marketing Processes With the Approaches by Artificial Intelligence. *Ecoforum*, ISSN :2344-2174, 6 (1), 2017.
- [19] T. DAVENPORT, A. GUHA, D. GREWAL, T. BRESSGOTT: How Artificial Intelligence Will Change The Future Of Marketing. *J. of the Acad. Mark. Sci.*, ISSN: 1552-7824, 48 (1), 24–42, Jan. 2020.
- [20] M. KHATRI: How Digital Marketing along with Artificial Intelligence is Transforming Consumer Behaviour? *Journal of Applied Science Engineering and Technology*, ISSN: 2321-9653, 9 (7), 2321–9653, Jul. 2021.
- [21] B. PEYRAVI, J. NEKROŠIENĖ, L. LOBANOVA: Revolutionised Technologies for Marketing: Theoretical Review with Focus on Artificial Intelligence. *Verslas: Teorija Ir Praktika*, ISSN 1822-4202, 21 (2), 827–834, 2020.
- [22] E. P. K. DR. N.THILAGAVATHY: Artificial Intelligence on Digital Marketing an Overview. *Nveo Natural Volatiles & Essential Oils Journal (NVEO)*, ISSN: 2148-9637, Dec. 2021.
- [23] U. ARSENIJEVIC, M. JOVIC: Artificial Intelligence Marketing: Chatbots. *International Conference on Artificial Intelligence: Applications and Innovations (IC AIAD)*, ISBN:978-1-7281-4327-9, Sep. 2019.
- [24] A. DE BRUYN, V. VISWANATHAN, Y. S. BEH, J. K. U. BROCK, F. VON WANGENHEIM: Artificial Intelligence and Marketing: Pitfalls and Opportunities. *Journal of Interactive Marketing*, ISSN: 1520-6653, 51 (1), 91–105, Aug. 2020.
- [25] E. MALTHOUSE, J. COPULSKY: Artificial Intelligence Ecosystems For Marketing Communications. *International Journal of Advertising*, ISSN:0265-0487 , 42 (1), 128–140, Jan. 2023.

- [26] B. VLAČIĆ, L. CORBO, S. COSTA E SILVA, M. DABIĆ: The Evolving Role of Artificial Intelligence in Marketing: A Review And Research Agenda. *Journal of Business Research*, ISSN: 0148-2963, 128, 187–203, May 2021.
- [27] H. CHEN, S. CHAN OLMSTED, J. KIM, I. MAYOR SANABRIA: Consumers' Perception on Artificial Intelligence Applications in Marketing Communication. *Qualitative Market Research: An International Journal*, ISSN: 1352-2752, vol. 25, no. 1, pp. 125–142, Jan. 2021.
- [28] E. MOGAJI, T. O. SOETAN, T. A. KIEU: The Implications of Artificial Intelligence on the Digital Marketing of Financial Services to Vulnerable Customers. *Australasian Marketing Journal*, ISSN: 1441-3582, 29 (3), 235–242, Aug. 2021.
- [29] S. PUNTONI, R. W. RECZEK, M. GIESLER, S. BOTTI: Consumers and Artificial Intelligence: An Experiential Perspective. *Journal of Marketing*, ISSN 0022-2429, 85 (1), 131–151, Jan. 2021.
- [30] Y. CHENG and H. JIANG: Customer–Brand Relationship in The Era of Artificial Intelligence: Understanding the Role of Chatbot Marketing Efforts. *Journal of Product & Brand Management*, ISSN: 1061-0421, 31 (2), 252–264, Jan. 2021.
- [31] T. M. B. MILLER LAURA MUNOZ RICHARD J.: Siri, Alexa, and other digital assistants: a study of customer satisfaction with artificial intelligence applications. in *The Role of Smart Technologies in Decision Making*, ISBN: 9781003307105, Routledge, 2022.
- [32] C. PRENTICE, S. DOMINIQUE LOPES, X. WANG: The Impact of Artificial Intelligence and Employee Service Quality on Customer Satisfaction and Loyalty. *Journal of Hospitality Marketing & Management*, ISSN 0278-4319, 29 (7), 739–756, Oct. 2020.
- [33] J. ZHANG, Q. CHEN, J. LU, X. WANG, L. LIU, Y. FENG: Emotional Expression by Artificial Intelligence Chatbots to Improve Customer Satisfaction: Underlying Mechanism and Boundary Conditions. *Tourism Management*, ISSN: 0261-5177, 100, 104835, Feb. 2024.
- [34] P. S. LEE, I. CHAKRABORTY, S. BANERJEE: Artificial Intelligence Applications to Customer Feedback Research: A Review. in *Artificial Intelligence in Marketing*, Vol. 20, K. SUDHIR and O. TOUBIA, Eds., in *Review of Marketing Research*, ISBN (Electronic) 978-1-80262-875-3, Vol. 20. , Emerald Publishing Limited, 2023, pp. 169–190.
- [35] B. RATHORE: Revolutionizing the Digital View: Exploring the Integration of Artificial Intelligence in Modern Marketing Strategies. *Eduzone: International Peer Reviewed/Refereed Multidisciplinary Journal*, ISSN: 2319-5045, 5(2), Art. no. 2, Aug. 2016.
- [36] J. M. TIEN: Internet of Things, Real Time Decision Making, and Artificial Intelligence. *Ann. Data. Sci.*, ISSN: 2198-5804, 4 (2), 149–178, Jun. 2017.
- [37] M. STONE, E. ARAVOPOULOU, Y. EKINCI, G. EVANS, M. HOBBS, A. LABIB, P. LAUGHLIN, J. MACHTYNGER, L. MACHTYNGER: Artificial Intelligence (AI) in Strategic Marketing Decision Making: A Research Agenda. *The Bottom Line*, ISSN: 0888-045X, 33 (2), 183–200, Jan. 2020.
- [38] B. S. ARASU, B. J. B. SEELAN, N. THAMARAISELVAN: A Machine Learning Based Approach to Enhancing Social Media Marketing. *Computers & Electrical Engineering*, ISSN 0045-7906, 86, 106723, Sep. 2020.

- [39] L. MA and B. SUN: Machine Learning and AI in Marketing – Connecting Computing Power to Human Insights. *International Journal of Research in Marketing*, ISSN: 0167-8116, 37 (3), 481–504, Sep. 2020.
- [40] R. PEREZ VEGA, V. KAARTEMÖ, C. R. LAGES, N. BORGHEI RAZAVI, J. MÄNNISTÖ: Reshaping the Contexts of Online Customer Engagement Behavior Via Artificial Intelligence: A Conceptual Framework. *Journal of Business Research*, ISSN: 0148-2963, 129, 902–910, May 2021.
- [41] L. T. KHRAIS: Role of Artificial Intelligence in Shaping Consumer Demand in E Commerce. *Future Internet*, ISSN 1999-5903, 12 (12), Art. no. 12, Dec. 2020.
- [42] M. SONG, X. XING, Y. DUAN, J. COHEN, and J. MOU: Will artificial intelligence replace human customer service? The impact of communication quality and privacy risks on adoption intention. *Journal of Retailing and Consumer Services*, ISSN 0969-6989, 66, p. 102900, May 2022.
- [43] P. VAN ESCH, J. STEWART BLACK: Artificial Intelligence (AI): Revolutionizing Digital Marketing. *Australasian Marketing Journal*, ISSN: 1441-3582, 29 (3), 199–203, Aug. 2021.
- [44] M. MUSTAK, J. SALMINEN, L. PLÉ, J. WIRTZ: Artificial Intelligence in Marketing: Topic Modeling, Scientometric Analysis, and Research Agenda. *Journal of Business Research*, ISSN: 0148-2963, 124, 389–404, Jan. 2021.
- [45] P. SÁNCHEZ NÚÑEZ, M. J. COBO, C. D. L. HERAS PEDROSA, J. I. PELÁEZ, E. HERRERA VIEDMA: Opinion Mining, Sentiment Analysis and Emotion Understanding in Advertising: A Bibliometric Analysis. *IEEE Access*, ISSN: 2169-3536, 8, 134563–134576, 2020.
- [46] S. CHINTALAPATI S. K. PANDEY: Artificial Intelligence in Marketing: A Systematic Literature Review. *International Journal of Market Research*, ISSN: 1470-7853, 64(1), pp. 38–68, Jan. 2022.
- [47] D. R. ALQURASHI, M. ALKHAFFAF, M. K. DAOUD, J. A. AL GASAWNEH, M. ALGHIZZAWI: Exploring the Impact of Artificial Intelligence in Personalized Content Marketing: A Contemporary Digital Marketing. *Migration Letters*, ISSN: 1741-8984, 20(8), p. 548–560, Nov. 2023.
- [48] P. JAIN, K. AGGARWAL: Transforming Marketing with Artificial Intelligence. *International Research Journal of Engineering and Technology (IRJET)*, ISSN: 2395-0056, 7(7), 3964-3976, 2020.
- [49] P. K. THEODORIDIS, D. C. GKIKAS: How Artificial Intelligence Affects Digital Marketing, Strategic Innovative Marketing and Tourism. *ISBN 978-3-030-12452-6 (Eds A. Kavoura, E. Kefallonitis, and A. Giovanis)*. In: *Springer Proceedings in Business and Economics*. Cham: Springer International Publishing, Agrinio, Greece, 2019.
- [50] Q. ANDRÉ et al.: Consumer Choice and Autonomy in the Age of Artificial Intelligence and Big Data. *Customer Needs and Solutions*, ISSN: 2399-4908, 5(1), pp. 28–37, Mar. 2018.
- [51] F. RABBY, D. R. CHIMHUNDU: Artificial Intelligence in Digital Marketing Influences Consumer Behaviour: A Review and Theoretical Foundation for Future Research. *Academy of Marketing Studies Journal*, ISSN: 1095-6298, 25(5), pp.1-7, 2021.
- [52] S. STRUHL: Artificial Intelligence Marketing and Predicting Consumer Choice: An Overview of Tools and Techniques. *ISBN 9780749479558 (Eds. A. Rider)*. United Kingdom, 2017.

- [53] A. E. FAYED: Artificial Intelligence For Marketing Plan: The Case for E-Marketing Companies. *Marketing and Management of Innovations*, ISSN: 2218-4511, 1(1), pp. 81–95, 2021.
- [54] D. C. GKIKAS, P. K. THEODORIDIS: Artificial Intelligence (AI) Impact on Digital Marketing Research. in *Strategic Innovative Marketing and Tourism. ISBN 2198-7254* (Eds. A. Kavoura, E. Kefallonitis, and A. Giovanis). Switzerland, 2019.
- [55] A. ADWAN: Can Companies in Digital Marketing Benefit from Artificial Intelligence in Content Creation? *International Journal of Data and Network Science*, ISSN: 2399-4908, 8(2) pp. 797–808, 2024.
- [56] S. F. HSU, S. LIOU, Artificial Intelligence Impact on Digital Content Marketing Research. 9th International Conference on Orange Technology (ICOT), Taiwan, Dec. 2021, pp. 1–4.
- [57] M. GERU, A. E. MICU, A. CAPATINA, A. MICU: Using Artificial Intelligence on Social Media’s User Generated Content for Disruptive Marketing Strategies in eCommerce. *Annals of the University Dunarea de Jos of Galati*, ISSN: 1843-5157, 23(3), pp. 5–11, Dec. 2018.
- [58] N. KSHETRI, Y. K. DWIVEDI, T. H. DAVENPORT, N. PANTELI: Generative Artificial Intelligence in Marketing: Applications, Opportunities, Challenges, and Research Agenda. *International Journal of Information Management*, ISSN:0268-4012, p. 102716-102726, Oct. 2023.
- [59] V. A. KAKLIJ, M. K. V. SHAH, M. U. MANDAWKAR: Microlearning Based Content Curation Using Artificial Intelligence for Learning Experience Platform: A Survey, Rochester, ISSN: 1091-0263, 580-584, Aug. 2020.
- [60] A. ALIM AL AYUB, G. APOORVA: Creation of Automated Content with Embedded Artificial Intelligence: A Study on Learning Management System for Educational Entrepreneurship. ProQuest, *Academy of Entrepreneurship Journal*, ISSN: 1087-9595, 27(3), 2021.
- [61] V. PADALE, D. DHANANJAY, G. WAGHMARE: A Study on Understanding Future of Artificial Intelligence in the Various Functions of Marketing. *Turkish Online Journal of Qualitative Inquiry*, ISSN: 1302-6488, 12(6), pp. 2008–2025, Jun. 2021.
- [62] N. NAWAZ, A. M. GOMES: Artificial Intelligence Chatbots are New Recruiters, Rochester, ISSN: 1091-0263,10(9), Jan. 2020.
- [63] X. LUO, S. TONG, Z. FANG, Z. QU: Frontiers: Machines vs. Humans: The Impact of Artificial Intelligence Chatbot Disclosure on Customer Purchases. *Marketing Science*, ISSN: 0732-2399, 38(6), pp. 937–947, Nov. 2019.
- [64] E. NICHIFOR, A. TRIFAN, E. M. NECHIFOR: Artificial Intelligence in Electronic Commerce: Basic Chatbots and the Consumer Journey. *Amfiteatru Economic*, ISSN: 1582-9146, 23(56), pp. 87–101, 2021.
- [65] J. SKREBECA, P. KALNIETE, J. GOLDBERGS, L. PITKEVICA, D. TIHOMIROVA, A. ROMANOV: Modern Development Trends of Chatbots Using Artificial Intelligence (AI). 62nd International Scientific Conference on Information Technology and Management Science of Riga Technical University (ITMS), Latvia, Oct. 2021, 1–6.
- [66] K. JAREK, G. MAZUREK: Marketing and Artificial Intelligence. *Central European Business Review*, ISSN: 1805-4854, 8(2) pp. 46–55, 2019.

- [67] C. LI, R. PAN, H. XIN, Z. DENG: Research on Artificial Intelligence Customer Service on Consumer Attitude and Its Impact during Online Shopping. *J. Phys.: Conf. Ser.*, ISSN:1742-6596, 1575(1), p. 012192-012206, Jun. 2020.
- [68] T. ZHAO, J. CUI, J. HU, Y. DAI, Y. ZHOU: Is Artificial Intelligence Customer Service Satisfactory? Insights Based on Microblog Data and User Interviews. *Cyberpsychology, Behavior, and Social Networking*, ISSN: 2152-2715, 25(2), pp. 110–117, Feb. 2022.
- [69] R. C. HO: Chatbot for Online Customer Service: Customer Engagement in the Era of Artificial Intelligence. *ISBN 1799876039*, (Eds. R. C. Ho, A. H. H. Ng, M. Nourallah). 2021, 16–31.
- [70] E. PANTANO, G. PIZZI: Forecasting Artificial Intelligence on Online Customer Assistance: Evidence from Chatbot Patents Analysis. *Journal of Retailing and Consumer Services*, ISSN: 0969-6989, 55(4) p. 102096-102102, July 2020.
- [71] R. AGNIHOTRI: From Sales Force Automation to Digital Transformation: How Social Media, Social CRM, and Artificial Intelligence Technologies Are Influencing The Sales Process. *ISBN 9781788975308* (Eds. F.Jaramillo, P. M. Jay). 2021.
- [72] R. BENABDELOUAHED, C. DAKOUAN: The Use of Artificial Intelligence in Social Media : Opportunities and Perspectives. *Expert Journal of Marketing*, ISSN 2344-6773, 8(1), pp.82-87, July 2020.
- [73] M. N. O. SADIKU, T. J. ASHAOLU, A. A. MAJEBI, S. M. MUSA: Artificial Intelligence in Social Media. *International Journal of Scientific Advances*, ISSN: 2708-7972, 2(1), 2021.
- [74] A. Capatina, M. Kachour, J. Lichy, A. Micu, A. E. Micu, F. Codignola, Matching the Future Capabilities of An Artificial Intelligence Based Software for Social Media Marketing with Potential Users' Expectations. *Technological Forecasting and Social Change*, ISSN 0040-1625, 151(1), p. 119794-119805, Feb. 2020.
- [75] S. BAG, G. SRIVASTAVA, M. M. A. BASHIR, S. KUMARI, M. GIANNAKIS, A. H. CHOWDHURY, Journey of Customers in This Digital Era: Understanding The Role of Artificial Intelligence Technologies in User Engagement and Conversion. *Benchmarking: An International Journal*, ISSN: 1463-5771, 29(7), pp. 2074–2098, Jan. 2021.
- [76] A. CAPATINA, A. MICU, A. E. MICU: Exploring Artificial Intelligence Techniques Applicability in Social Media Marketing. 3rd Edition International Conference ETIMM Emerging Trends in Marketing and Management, Sept. 2018, 156-166.
- [77] H. ALBOQAMI: Trust me, I'm an influencer! Causal Recipes for Customer Trust in Artificial Intelligence Influencers in The Retail Industry. *Journal of Retailing and Consumer Services*, ISSN : 0969-6989, 72(1), p. 103242, May 2023.
- [78] M. GERLICH, W. ELSAYED, K. SOKOLOVSKIY, Artificial Intelligence as Toolset for Analysis of Public Opinion and Social Interaction in Marketing: Identification of Micro and Nano Influencers. *Frontiers in Communication*, ISSN : 2297-900X, 8(1), pp.1-15, June 2023
- [79] A. E. SIMAY, Y. WEI, T. GYULAVÁRI, J. SYAHRIVAR, P. GACZEK, Á. H. TÓTH: The e WOM Intention of Artificial Intelligence (AI) Color Cosmetics Among Chinese Social Media Influencers. *Asia Pacific Journal of Marketing and Logistics*, ISSN:1355-5855, 35(7), 1569-1598, Jan. 2022.

- [80] D. SCHIESSL, H. B. A. DIAS, J. C. KORELO: Artificial Intelligence in Marketing: A Network Analysis and Future Agenda. *J. Market Anal*, ISSN:2050-3318, 10(3), pp. 207–218, Sep. 2022.
- [81] J. P. BHARADIYA: Machine Learning and AI in Business Intelligence: Trends and Opportunities. *International Journal of Computer (IJC)*, ISSN: 0952-8091, 48(1), pp. 123–134, 2023.
- [82] C. OLSON, J. LEVY: Transforming Marketing with Artificial Intelligence. *Applied Marketing Analytics*, ISSN: 2054-7544, 3(4), pp. 291–297, Mar. 2018.
- [83] M. A. AL KHALDY, B. A. A. AL OBAYDI, A. J. AL SHARI: The Impact of Predictive Analytics and AI on Digital Marketing Strategy and ROI, *ISBN 3031424654, S. Era, G. Yaseen*). Switzerland, 2023.
- [84] A. ASNIAR, K. SURENDRO: Predictive Analytics for Predicting Customer Behavior. 2019 International Conference of Artificial Intelligence and Information Technology (ICAIIIT), Beijing, Mar. 2019, 230–233,
- [85] T.C.ČIKOŠEV: Development and Implementation of the Integrated Marketing Communications Concept. *Economic Analysis*, ISSN: 2632-7627, 52(1), pp. 36–47, 2019.
- [86] H. KENNEDY, T. KUNKEL, D. FUNK: Using Predictive Analytics to Measure Effectiveness of Social Media Engagement: A Digital Measurement Perspective. *SMQ*, ISSN: 1061-6934, 30(4), Dec. 2021.
- [87] A. M. ZAKI, N. KHODADADI, W. H. LIM, E. S. EL KENAWY: Predictive Analytics and Machine Learning in Direct Marketing for Anticipating Bank Term Deposit Subscriptions. *American Journal of Business and Operations Research*, ISSN: 2692-2967, 11(1) pp. 79–88, Jan. 2024.
- [88] M. B. ADAM: Improving Complex Sale Cycles and Performance by Using Machine Learning and Predictive Analytics to Understand the Customer Journey. Graduate Thesis, Massachusetts Institute of Technology, 2018.
- [89] J. RANA, L. GAUR, G. SINGH, U. AWAN, M. I. RASHEED: Reinforcing Customer Journey Through Artificial Intelligence: A Review and Research Agenda. *International Journal of Emerging Markets*, ISSN: 1746-8809, 17(7), 1738–1758, Jan. 2021.