American Research Journal of Humanities & Social Science (ARJHSS)

E-ISSN: 2378-702X

Volume-08, Issue-01, pp-19-27

Research Paper

Open

Access

AI-Powered Digital Marketing: Transforming Personalized Experiences

Kemal Gokhan Nalbant¹, Sevgi Aydin²

¹(Department of Software Engineering, Istanbul Beykent University, Turkey)
²(Department of Business, Istanbul Beykent University, Turkey)

Corresponding author: Kemal Gokhan Nalbant

ABSTRACT: Technological improvements enable more individualized connections with clients and improve strategic planning skills, shaping the growth of digital marketing. Marketers may use machine learning, predictive analytics, and natural language processing to acquire a better understanding of customer behavior. These technologies enable the refinement of advertising strategies and enhance engagement metrics. Technological advancements are transforming content generation, with chatbots and recommendation systems enhancing efficiency and user satisfaction in customer experiences. The study's findings indicate that these technologies enhance conversion rates, optimize resource utilization, and increase efficiency. This strategy underscores the importance of effectively utilizing technology while also tackling issues related to ethics and data security. In the future, digital marketing will focus on quickly meeting customer expectations while combining technological innovation with human creativity. In a constantly evolving digital landscape, businesses that embrace innovation are more likely to succeed and foster client loyalty.

Keywords - Artificial intelligence, customer experience, digital marketing, market trends, marketing campaigns.

I. INTRODUCTION

Digital marketing has undergone a significant transformation, influencing how businesses create campaign content, identify potential customers, minimize customer acquisition costs, manage user experiences, improve employer branding, and engage effectively with audiences via social media. Many companies are using innovative tactics to adapt to this transformation [1].

Recent technology breakthroughs have significantly enhanced efficiency and resource optimization in several sectors, including industry, education, healthcare, and public safety. Automation and workflow optimization have considerably improved industrial operations. Although these improvements have generated employment opportunities in some sectors, they have also induced fundamental changes in the labor market by automating positions that need little skills. Technology has markedly improved the quality and accessibility of services in education, healthcare, and public safety sectors. These developments may exacerbate the digital divide and hinder advancements in social inclusion. The growing integration of technology into everyday life has heightened concerns regarding data privacy and information security [2].

The ideas that underpin contemporary marketing and distribution strategies include the intensification of advertising campaigns, the optimization of distribution systems, and the customization of information to accommodate the expectations of each individual client. Statistics on demographics, sales, and trends in consumer behavior may be used to infer growth and demand forecasts because of the information they provide. The implementation of recommender systems that monitor user preferences and behaviors facilitates the customization of product recommendations and marketing communications, thereby enhancing customer engagement and improving conversion rates. All aspects of the firm, including resources, marketing, profitability, and organizational development, demonstrate growth [3].

AI is a computer-assisted analytical discipline aimed at developing automated systems that can be classified as intelligent. It can alternatively be characterized as human intellect manifested through machines. Artificial intelligence is categorized into two types: strong AI and weak AI. The former, often referred to as artificial general intelligence, denotes a computer or system possessing logic, awareness, and sensory capabilities, exhibiting intelligence across multiple domains rather than being confined to a specific one. The latter, usually referred to as artificial limited intelligence, pertains to robots that possess intelligence within a specific subject. The applications of artificial intelligence utilize technology such as natural language processing, speech recognition, machine learning, robotics, and computer vision. These technologies present numerous prospects for enterprises. Machine learning is a technique for achieving artificial intelligence, while deep learning is seen as a subset of machine learning and a means of comprehending it [4].

II. AI IN MARKETING: SHAPING PERSONALIZED EXPERIENCES

The active advancement of the Internet and other devices has prompted a shift in consumer behavior towards the utilization of the digital environment in daily life. The Z and Alpha generations, born during the escalation of digitalization processes and who perceive natural models of social interaction through the utilization of smartphones, tablets, laptops, and other specialized devices, exhibit a notably high interest in the Internet and innovative technologies. Generation Y, economically active and engaged consumers of contemporary goods and services, is also distinguished by a significant level of participation in the digital realm. Social media is a prominent digital platform that enables people to communicate and engage with various brands [5].

The incorporation of artificial intelligence (AI) in e-commerce has initiated a novel phase of innovation, impacting market trends and transforming business-consumer interactions. The incorporation of machine learning algorithms is transforming the manner in which e-commerce platforms comprehend and anticipate consumer desires. Through the analysis of extensive datasets that include user interactions, purchasing history, and social media activity, machine learning algorithms discern complex patterns and preferences. This degree of information enables firms to create highly tailored experiences for users. The incorporation of emerging technology, including chatbots and virtual assistants, is transforming the user experience in ecommerce. AI-driven chatbots function as virtual assistants, delivering immediate customer service, addressing inquiries, and assisting consumers throughout the shopping journey. This not only improves user satisfaction but also optimizes the customer experience, leading to increased conversion rates [6].

Marketers may leverage AI technology to discern trends and project them into the future. Consequently, they can determine budget allocation and target demographics. Brands may allocate fewer resources to digital advertising and invest more time in high-value endeavors. AI is essential to the success of any marketing effort, from the planning stage to conversion and customer loyalty phases. Consequently, enterprises that comprehensively leverage AI will attain a competitive edge. Machines capable of reproducing cognitive functions linked to the human mind, particularly learning and problem-solving, have been created. Through the analysis of user data and the facilitation of marketers' understanding of user intent, AI is aiding marketers in interpreting the dynamic landscape of content marketing. Marketers can utilize AI to provide content for straightforward narratives, including stock updates and sports news [7].

Key AI technologies utilized in marketing encompass machine learning, natural language processing, and predictive analytics. Machine learning facilitates the analysis of consumer data by marketers, allowing for the prediction of future behavior and the enhancement of personalized marketing strategies. Natural Language Processing facilitates the analysis and comprehension of human language, thereby enhancing customer interactions via chatbots and sentiment analysis. Predictive analytics utilizes historical data to project future trends, enabling organizations to anticipate client needs and preferences. AI-driven marketing solutions have evolved in sophistication, incorporating real-time customer insights, automated content generation, and enhanced client segmentation capabilities. The implementation of these technologies has optimized marketing operations and markedly enhanced the capacity to provide personalized experiences to clients [8].

Artificial intelligence in marketing is defined by accuracy, customization, and effectiveness. It allows marketers to customize their methods to correspond with consumers' requirements and tastes, so they promote more substantial and effective connections. The intelligence of AI stems from its ability to self-learn and

ARJHSS Journal www.arjhss.com Page | 20

continuously improve, hence augmenting its productivity and efficacy with each job repetition. It can automate both normal and non-routine operations by replicating human thoughts and actions, analyzing intricate data to discern behavioral patterns and insights, and learning knowledge from experiences to render educated judgments. Generative AI functions as a resource for content and idea creation for around 50% of marketers in the industry [9].

III. AI AND THE TRANSFORMATION OF CUSTOMER EXPERIENCE

AI-driven personalization through chatbots and virtual assistants enhances client experience. AI-driven solutions can offer immediate, tailored assistance to clients. Chatbots can address frequently asked questions, suggest products, and assist with transactions. AI systems can assist in comprehending client preferences and delivering tailored solutions. Virtual assistants employ natural language processing and machine learning to assess and anticipate client preferences, hence offering enhanced personalization. These conversational assistants can direct clients through their experience. Chatbots and virtual assistants enable firms to provide round-the-clock customer assistance, reduce response times, and deliver personalized advice. This enhances customer experience and operational efficiency. Automating tedious processes allows human agents to address more intricate concerns. AI-driven personalization through chatbots and virtual assistants enhances client experience. AI-driven solutions can offer immediate, tailored assistance to clients. Chatbots can address frequently asked questions, suggest products, and assist with transactions. Artificial intelligence technologies can assist in comprehending consumer preferences and delivering tailored solutions. Virtual assistants employ natural language processing and machine learning to assess and anticipate client preferences, hence offering enhanced personalization. These conversational assistants can direct clients through their experience. Chatbots and virtual assistants enable firms to provide round-the-clock customer assistance, reduce response times, and deliver personalized advice. This enhances customer experience and operational efficiency by automating common operations and enabling humans to address complicated inquiries [10].

Consumption, consumer studies, and consumer research are essential components of modern society, attracting the attention of marketers, policymakers, and several academic fields. Consumers presently engage in a multitude of interactions with AI. Marketing researchers acknowledge that AI presents significant potential advantages for customers and their lifestyles. Nevertheless, the augmented utilization of AI presents intrinsic conflicts for customers, encompassing privacy issues, dehumanization, and potential addiction [11].

A challenge encountered by digital marketers, arising from the increasing number of accessible data, is the efficient processing and evaluation of this data to provide significant insights and cultivate customer trust. It is essential to analyze how the firm will cultivate trust through the integration of big data and AI to influence consumer behavior, hence emphasizing the relationship between customer engagement behaviors and big data. AI technologies empower service providers to effectively handle and respond to large data volumes in real-time, automating service interactions and providing tailored customer experiences. Artificial intelligence is progressively emerging as an essential marketing tool in critical situations. The strategy and planning of AI have advanced due to data collected by customer relationship managers concerning consumer behaviors and preferences [12].

Companies are progressively adopting AI technology bolstered by data analytics in response to persistent margin challenges, abbreviated strategy cycles, and heightened consumer expectations. This transforms the manner in which companies engage with their clients, potentially enhancing customer-brand connections. Advancements in AI can enhance customer experience by augmenting organizations' understanding of consumers' preferences and buying behaviors. Strategically using AI technology at several critical consumer touchpoints may yield substantial advantages for organizations and perhaps enhance customer happiness. Retailers are employing AI in several applications, including AI-driven chatbots, content creation, and consumer analytics. AI technology can customize services and product suggestions by analyzing customers' previous purchases and preferences [13].

IV. AI TOOLS REVOLUTIONIZING MARKETING CAMPAIGNS

In contrast to the conventional one-size-fits-all approach, personalized marketing highlights the need of adjusting strategies to the unique interests and behaviors of each clients. Customers' increasing need for personalized experiences drives businesses to use innovative strategies to meet these demands. Advanced technologies, especially artificial intelligence, provide exceptional capabilities in data analysis, machine learning, and predictive analytics, generating new opportunities to effectively meet these needs. The capacity of AI to analyze extensive datasets and uncover concealed patterns enables marketers to develop precisely targeted advertisements that connect profoundly with individual consumers. A big part of how AI is used in personalized marketing is to change how prices are set. When AI systems set prices in real time, they might look at things like how customers act, how demand changes, and what other companies' prices are. You can change the prices to better meet the needs of each client and make the business more profitable at the same time [14].

Because of changes in how customers act, businesses are using a lot of new tools and technologies to make their personalized marketing strategies better. Statistics can help you learn what the people you want to buy from need and want. With AI, it's easy to plan and look at the customer experience. This helps figure out what's wrong and makes the experience more personal. Digital marketing tools and tactics that use artificial intelligence (AI) might work better when we bid, watch ads, and look for new content. This group's main goals are to find smarter ways to spend money and make investments that pay off. AI also tells marketers right away how well their work is doing, so they can make decisions based on facts and smart changes that work better [15].

The use of generative AI in digital marketing campaigns introduces data-driven insights and automated optimization, signifying a substantial transition from conventional, intuition-based marketing techniques. Generative AI proficiently processes and analyzes extensive data sets, deriving significant insights into consumer behaviors, preferences, and trends. This capacity allows marketers to make educated decisions, customizing their campaigns to more effectively engage their target demographic [16].

In marketing and advertising, predictive analytics facilitates enhanced targeting of advertising campaigns and the anticipation of customer responses. Through the examination of past data on consumer interactions with advertisements, purchasing patterns, and engagement indicators, predictive models may ascertain the attributes of high-value customers and forecast the responses of different segments to diverse marketing methods. This information enables firms to enhance their advertising expenditure by concentrating on channels and messaging that are most likely to engage their target demographic. Predictive analytics may ascertain the ideal time and content for email campaigns or social media advertisements, hence enhancing the probability of engagement and conversion. Moreover, predicting customer reactions yields insights into prospective campaign efficacy, allowing modifications and enhancements that optimize return on investment [17].

AI-driven tools and solutions have demonstrated efficacy in addressing several business challenges, including the optimization of sales and marketing. The social media marketing strategy is extensively utilized nowadays; yet, it necessitates profound topic understanding and human work, rendering it a costly endeavor. This issue is particularly common in small and medium enterprises (SMEs), where the absence of a cost-effective solution impedes their capacity to utilize social media platforms for revenue and brand awareness expansion [18].

V. PERSONALIZED MARKETING WITH AI TECHNOLOGIES

Artificial intelligence is more prevalent in the digital marketing sector, and this is justified. Technology is an expansive phrase that includes several different technologies. AI technology refers to any technology that emulates human intellect. Its application spans semantic search, machine learning, and image and speech recognition. Marketers frequently extol the virtues of the latest technology and their applications. Many of these individuals consistently discuss different AI uses, including advanced security features such as data leak prevention. These strategies are utilized in propensity models, artificial intelligence applications, and machine learning methodologies. Machine learning involves the creation of propensity models derived from insights gained from past data sets through the application of algorithms. Applied propensity models refer to the utilization of these models for the prediction of specific occurrences. AI applications encompass any kind of

artificial intelligence designed to perform functions traditionally assigned to people, such as customer support services [19].

The emergence of AI in marketing is occurring concurrently with the fast, broader progression of marketing technology, including both front-line marketing activities like contact centers and the administration of marketing resources. This advancement facilitates the implementation of AI in marketing by automating many marketing components and producing data that can be utilized to enhance AI capabilities. Consequently, the utilization of AI must be incorporated with these applications, automatically processing data flows and providing suggestions to other domains. Marketing entails engaging with clients and utilizing their data. Both include significant ethical issues. Requesting computers to determine product offerings for clients or identify potential fraudsters is commonplace in sectors like financial services; yet, it has generated issues of fairness and trust [20].

Numerous organizations utilize artificial intelligence in various capacities, enabling them to substantially enhance their marketing skills. Companies currently exist that offer such services and enhance their own AI technology. Furthermore, several programs are offered at no cost, enabling you to assess contemporary AI skills and incorporate some of their innovations into your professional or educational endeavors. The subsequent study demonstrates that the implementation of artificial intelligence in corporate operations enhances key performance metrics and yields superior financial outcomes. Artificial intelligence generally denotes the capacity of robots to replicate capabilities primarily linked to humans, including learning, information analysis, conclusion drawing, and decision-making. Organizations employ many iterations of such technologies, including automated customer care, marketing process automation, automated sales, and predictive analytics [21].

In today's competitive landscape, incorporating advanced technologies into digital marketing strategies has become essential for businesses aiming to maintain their edge and enhance their marketing efforts. Recent technological advancements have introduced powerful tools that are reshaping digital marketing operations. These innovations have significantly transformed how companies engage with customers, improve conversion rates, and optimize overall marketing performance. By leveraging sophisticated tools for data collection and analysis, businesses can process vast amounts of information to gain actionable insights into customer behavior and preferences. This enables them to craft strategies that resonate with their target audience more effectively. The integration of cutting-edge technologies into digital marketing has become increasingly crucial in the modern technological era. As innovation progresses, businesses are adopting these tools to refine their marketing tactics and strengthen their position in the digital marketplace [22].

Augmented reality (AR) amplifies a user's experience of the physical environment by superimposing virtual material. The concept of augmented reality has only been broadly defined by the research undertaken to date on augmented reality marketing. Augmented reality marketing is a unique and potentially revolutionary subfield within the marketing sector. The introduction of augmented reality (AR) in marketing may be categorized as AR marketing, similar to the rise of the internet, which later facilitated the growth of internet marketing, SEO, and social media. The consumer navigates the store using a mouse, joystick, or keyboard input in a conventional desktop virtual reality (VR) simulation. Users may choose a box from the shelf by clicking or tapping the displayed product image on the screen. The item will swiftly move to the middle of the screen. The purchaser may "acquire" an item by picking an image of a shopping cart, after which they may rotate the object to inspect the packaging details and subsequently "procure" the item. The computer will record all facets of the interaction in the background during your shopping experience. This will include the time assigned to each category, the order of product interactions, the duration of each contact, and the overall quantity of products acquired [23].

Technology and the Internet have revolutionized marketing, and this trend is anticipated to persist. Consequently, marketers must proactively comprehend and embrace emerging technologies for advertising, branding, consumer engagement, and customer support. As the metaverse, or Internet 3.0, emerges, marketers are finding it challenging to adjust their strategies. Marketers must initially identify segmentation tactics that advantage both their organization and clientele. Researchers in hospitality and tourism must develop a roadmap and strategic frameworks to assist industry stakeholders in categorizing and targeting clients. A conceptual framework delineating the marketing ecology inside a decentralized blockchain context will be beneficial.

ARJHSS Journal www.arjhss.com Page | 23

Consumers frequently employ booking websites, hotel websites, or other digital platforms associated with hospitality and tourism; nevertheless, marketers in the metaverse must engage with the user's metaverse. Consequently, marketers must develop innovative consumer engagement strategies for the metaverse. Advertising in the metaverse is both exhilarating and lucrative, attracting commercial entities and scholars focused on virtual human behavior. Numerous inquiries remain unresolved regarding metaverse advertising and its similarities or distinctions from the physical world. Customizing their avatars, encompassing essential information and color selections, provides metaverse users with a distinctive experience. Given corporations' eagerness to connect with their target audiences through innovative and engaging methods, marketers must acknowledge that, similar to social media, the metaverse is subject to advertising honesty standards. Advertising in the metaverse constitutes a targeted communication initiative aimed at a certain audience during a defined timeframe [24].

VI. FUTURE OF AI IN DIGITAL MARKETING: REDEFINING PERSONALIZATION

The applications of modern technology in marketing are likely to become more thoroughly integrated with the decision-making processes of humans in the time to come. There is a high probability that research will concentrate on gaining a knowledge of the dynamics of cooperation between people and technology, as well as the design of interfaces that promote continuous teamwork. An interesting area of research that is being looked into right now is emotional intelligence in intelligent systems. This would allow these systems to understand and react appropriately to human emotions. With better technology, computers may be able to figure out how customers feel, react in a way that meets their needs, and make brand exchanges that are socially interesting. This could change how marketers do their work. These tools will work better with more types of information in the future. Customers will have consistent and logical experiences with your business if they can connect with it in different ways. The study's goal is to improve digital marketing by using cutting-edge tools to get people more involved and speed up all kinds of interactions. In the future, people are likely to focus on making systems that are always learning and can adapt to changes in the market, in how customers act, and in industry trends. This is because improvements in technology are likely to keep happening. Having formulas that can change with the times will be very helpful in making marketing strategies that stay useful and effective in a world that is always shifting. Using cutting-edge technologies, focusing more on social problems, and the chance to do groundbreaking study are some of the things that make up the new trends in this field. To get the most out of the positive effects that advanced technology will have on the future of marketing [25], companies need to be proactive about these trends and stick to moral standards. Also, businesses need to figure out how to operate in this changing environment.

The sales and profitability growth of enterprises and organizations will undoubtedly rise owing to the impact of artificial intelligence in marketing. AI presents novel potential in the marketing sector. Artificial intelligence enables rapid prediction of consumer and client behavior. AI can assess the effectiveness of digital marketing initiatives, enabling the organization to get increased sales volume, hence enhancing return on investment. AI will impact the company's marketing efforts by analyzing client insights. The efficiency and productivity of marketing managers may be enhanced by the utilization of artificial intelligence, seen as a pragmatic instrument. This transformative technology provides enhanced advantages for firms to augment consumer and corporate value. The tailored customer experience is an AI capability that can yield enhanced advantages through data use. This will aid customers in making informed decisions that yield long-term value, decreasing the frequency of purchases and steering them away from overconsumption [26].

The future of AI-driven digital marketing is captivating and vast. AI has the potential to radically transform how firms sell their products and services by offering insights and automation that were previously unimaginable. AI can deliver more personalized experiences to customers by evaluating client data to customize content, offers, and messages. In the future, AI may employ real-time data to improve customization by creating tailored product recommendations based on a user's location or activity. Artificial Intelligence has the potential to augment Augmented Reality and Virtual Reality experiences in digital marketing by delivering more tailored interactions and product showcases. For instance, AI may evaluate user data to deliver more pertinent product recommendations throughout an AR/VR encounter. AI-driven digital marketing will become increasingly significant due to the rise of smart speakers and voice assistants. Marketers must devise strategies focused on

ARJHSS Journal <u>www.arjhss.com</u> Page | 24

voice-based interactions and enhance their content for voice search optimization. As AI technology advances, chatbots will evolve to become smarter and more adept at resolving intricate client inquiries. Artificial intelligence may be utilized to evaluate client sentiment in real-time, offering companies insights that improve customer service [27].

After examining several research publications, it has been concluded that the prevailing topics encompass decision theory, social marketing surveys and methodology, and customer relationship management in the context of artificial intelligence-driven marketing. Classifications, support vector machines, artificial intelligence, deep learning, marketing campaigns, and semantic analysis are fields that may be highlighted for their attractiveness. Future research avenues may significantly employ machine learning and semantic knowledge to improve comprehension of customer needs and insights. Algorithms inspired by the brain, which integrate psychological research, are garnering increased attention from scholars due to their widespread use and the rising interest of many companies in this field. Diverse hybrid machine learning techniques may be developed for the effective classification of emotions. Despite the development of several models for AI application in marketing, substantial prospects for enhancement persist, making this sector a notable and appealing domain for study [28].

VII. CONCLUSION

This paper examines the transformative influence of artificial intelligence (AI) on digital marketing strategies, emphasizing its ability to enhance personalization, optimize campaign effectiveness, and promote consumer engagement. Machine learning, natural language processing, and predictive analytics are examples of advanced technologies that provide organizations the ability to evaluate data pertaining to customers, forecast their future actions, and provide marketing material that is specifically targeted to their needs. Chatbots, recommendation engines, and content production platforms are examples of innovative technologies that have brought new approaches to the engagement of audiences and the enhancement of operational efficiency in businesses.

Despite these achievements, there are still obstacles to overcome. Approaches that are cautious and proactive are required in order to address ethical issues that are associated with data privacy, transparency, and the possibility of algorithmic bias. Establishing trust with customers and cultivating long-term relationships with them are dependent on the use of these technologies in an ethical and transparent manner. The implementation of publicly accountable laws and the establishment of preventative measures to limit risks are two things that organizations need to do in order to fully utilize the promise of modern technologies.

An enormous amount of opportunity exists for the use of cutting-edge technology into digital marketing. The ability to adapt in real time to changing market circumstances and developing client preferences is a feature of algorithms that are capable of continuous learning. The combination of new technologies such as augmented reality (AR) and virtual reality (VR) with sophisticated analytics presents a tremendous potential to boost customer engagement. This is accomplished by offering experiences that are both highly tailored and immersive. In addition, in order for companies to develop marketing strategies that are able to elicit an emotional response from customers, they need place a high priority on the partnership between human creativity and digital intelligence.

In order to maintain their competitive edge, businesses need to make ethical standards a top priority, make investments in technical solutions that are scalable, and push innovation while developing individualized marketing tactics. One way for companies to establish themselves as leaders in the digital economy is to solve the issues that are now being faced and to capitalize on the possibilities that are developing. With this, they will be able to construct a future that is characterized by strong connections with their customers and growth that is sustainable.

REFERENCES

- [1]. P. Van Esch, and J. Stewart Black, Artificial intelligence (AI): revolutionizing digital marketing. Australasian Marketing Journal, 29(3), 2021, 199-203.
- [2]. Q. Wang, F. Zhang, and R. Li, Artificial intelligence and sustainable development during urbanization: Perspectives on AI R&D innovation, AI infrastructure, and AI market advantage. Sustainable Development, 2024.

ARJHSS Journal www.arjhss.com Page | 25

- [3]. D. O. Ogundipe, S. O. Babatunde, and E. A. Abaku, AI and product management: A theoretical overview from idea to market. International Journal of Management & Entrepreneurship Research, 6(3), 2024, 950-969.
- [4]. M. Z. Shahid, and G. Li, Impact of artificial intelligence in marketing: A perspective of marketing professionals of Pakistan. Global Journal of Management and Business Research, 19(2), 2019, 27-33.
- [5]. I. Ponomarenko, and D. Ponomarenko, AI-Powered Logistics and Digital Marketing for Business Optimisation. Economics & Education, 8(4), 2023, 27-33.
- [6]. M. A. Raji, H. B. Olodo, T. T. Oke, W. A. Addy, O. C. Ofodile, and A. T. Oyewole, E-commerce and consumer behavior: A review of AI-powered personalization and market trends. GSC Advanced Research and Reviews, 18(3), 2024, 066-077.
- [7]. A. Haleem, M. Javaid, M. A. Qadri, R. P. Singh, and R. Suman, Artificial intelligence (AI) applications for marketing: A literature-based study. International Journal of Intelligent Networks, 3, 2022, 119-132.
- [8]. W. E. Kedi, C. Ejimuda, C. Idemudia, and T. I. Ijomah, AI software for personalized marketing automation in SMEs: Enhancing customer experience and sales. World Journal of Advanced Research and Reviews, 23(1), 2024, 1981-1990.
- [9]. V. Kumar, A. R. Ashraf, and W. Nadeem, AI-powered marketing: What, where, and how?. International Journal of Information Management, 77, 2024, 102783.
- [10]. M. S. Bhuiyan, The role of AI-Enhanced personalization in customer experiences. Journal of Computer Science and Technology Studies, 6(1), 2024, 162-169.
- [11]. M. M. Mariani, R. Perez-Vega, and J. Wirtz, AI in marketing, consumer research and psychology: A systematic literature review and research agenda. Psychology & Marketing, 39(4), 2022, 755-776.
- [12]. F. Rabby, R. Chimhundu, and R. Hassan, Artificial intelligence in digital marketing influences consumer behaviour: a review and theoretical foundation for future research. Academy of Marketing Studies Journal, 25(5), 2021, 1-7.
- [13]. N. Ameen, A. Tarhini, A. Reppel, and Anand, A. Customer experiences in the age of artificial intelligence. Computers in Human Behavior, 114, 2021, 106548.
- [14]. T. V. Iyelolu, E. E. Agu, C. Idemudia, and T. I. Ijomah, Leveraging artificial intelligence for personalized marketing campaigns to improve conversion rates. International Journal of Engineering Research and Development, 20(8), 2024, 253-270.
- [15]. C. B. Singh, and M. M. Ahmed, Revolutionizing digital marketing: the impact of artificial intelligence on personalized campaigns, 2024.
- [16]. V. Soni, Adopting generative ai in digital marketing campaigns: An empirical study of drivers and barriers. Sage Science Review of Applied Machine Learning, 6(8), 2023, 1-15.
- [17]. P. A. Okeleke, D. Ajiga, S. O. Folorunsho, and C. Ezeigweneme, Predictive analytics for market trends using AI: A study in consumer behavior. International Journal of Engineering Research Updates, 7(1), 2024, 36-49.
- [18]. P. Kulkarni, R. Bhoj, S. Rajapure, S. Gujar, D. Verma, and R. Ranjan, AI-powered campaign management system. In 2021 2nd global conference for advancement in technology (GCAT) (pp. 1-6), 2021, IEEE.
- [19]. K. Nair, and R. Gupta, Application of AI technology in modern digital marketing environment. World Journal of Entrepreneurship, Management and Sustainable Development, 17(3), 2021, 318-328.
- [20]. M. Stone, E. Aravopoulou, Y. Ekinci, G. Evans, M. Hobbs, A. Labib, ... and L. Machtynger, Artificial intelligence (AI) in strategic marketing decision-making: a research agenda. The Bottom Line, 33(2), 2020, 183-200.
- [21]. V. Nesterenko, and O. Olefirenko, The impact of AI development on the development of marketing communications. Marketing i menedžment innovacij, 14(1), 2023, 169-181.
- [22]. A. Apriani, I. Sani, L. Kurniawati, R. Prayoga, and H. L. Panggabean, The role of artificial intelligence (AI) and its benefits in digital marketing strategy. East Asian Journal of Multidisciplinary Research, 3(1), 2024, 319-332.

- [23]. K. G. Nalbant, and S. Aydin, Development and transformation in digital marketing and branding with artificial intelligence and digital technologies dynamics in the Metaverse universe. Journal of Metaverse, 3(1), 2023, 9-18.
- [24]. S. Aydin, and K. G. Nalbant, The significance of artificial intelligence in the realms of marketing, advertising, and branding inside the metaverse. JOEEP: Journal of Emerging Economies and Policy, 8(2), 2023, 301-316.
- [25]. D. D. Umamaheswari, Role of Artificial Intelligence in Marketing Strategies and Performance. Migration Letters, 21(S4), 2024, 1589-1599.
- [26]. K. Zaman, Transformation of marketing decisions through artificial intelligence and digital marketing. Journal of Marketing Strategies, 4(2), 2022, 353-364.
- [27]. A. Mittal, and R. Tandon, AI Revolutionizing Digital Marketing: Current Tools, Key Aspects, and Future Directions. In 2023 3rd International Conference on Innovative Sustainable Computational Technologies (CISCT) (pp. 1-6), 2023, IEEE.
- [28]. S. Garg, AI transforming the future of Digital Marketing. In International Conference on Emerging Technologies: AI, IoT, and CPS for Science & Technology Applications, 2021.

Corresponding author: Kemal Gokhan Nalbant

¹(Department of Software Engineering, Istanbul Beykent University, Turkey)