IJCRT.ORG ISSN : 2320-2882

INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

Toward Sustainable Consumer-Centric Marketing: The Role Of Artificial Intelligence In Personalized And Ethical Brand Engagement

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Abstract

By enabling brands to offer highly personalised experiences that increase engagement and loyalty, AI-driven personalisation is changing consumer-centric marketing. Artificial intelligence (AI) has evolved into an essential resource for marketing strategies as consumer demand for tailored interactions expands and data-driven insights help to build more important brand-customer links. Emphasising its relevance for contemporary brand engagement, the paper investigates how artificial intelligence is transforming personalisation.

Emphasising its impact on consumer engagement, this research aims to provide a thorough review of the present literature on AI-driven personalisation. The paper compiles data from several sources to examine how AI technologies such as machine learning, predictive analytics, and natural language processing improve marketing strategies by means of tailored advertising, personalised recommendations, and dynamic content distribution. This study uses journal studies and scholarly research articles for a meticulous examination of the literature. To ensure an in-depth examination of the topic, sources were selected for their relevance to AI-driven personalisation and brand interaction. Studies show that by developing deeper connections, increasing brand loyalty, and improving customer experiences, AI-driven personalisation greatly improves consumer-brand interactions. Still, major determinants of customer trust are data privacy concerns, questions of ethics, and algorithmic biases.

This paper synthesises critical insights to improve comprehension of AI's function towards sustainable consumer-centric marketing and offers brands solutions to personalisation concerns. Future research should look at consumer opinions on trustworthy AI frameworks, consumer personalisation of AI, and the combination of AI with subsequent technologies to improve marketing methods.

Keywords: Personalization, Artificial Intelligence, Ethics, Brand Engagement, Sustainability, Consumer-Centric Marketing, Consumer-Brand interactions

Introduction

The digital era has changed consumer expectations for highly customised experiences, which forces brands to adopt artificial intelligence (AI) to improve interaction and build more important relationships with their customers. By enabling businesses to study vast customer data, forecast preferences, and provide customised experiences that improve brand engagement and loyalty, AI-driven customisation has changed consumer-centric marketing (Kusuma, 2024). Several times, depending on large amounts of demographic data, traditional marketing strategies produced generic campaigns ignoring unique consumer needs. From mass marketing to highly personalised, real-time customer interaction, artificial intelligence technologies like machine learning, predictive analytics, and natural language processing (NLP) have helped marketers move beyond generic goals (Ariwa et al., 2024).

The capacity of artificial intelligence to analyse consumer data has changed the field of personalised marketing, allowing brands to provide dynamic content, customised suggestions, and targeted advertising more exactly matching individual customer behaviour. Widely used in e-commerce systems, AI-driven recommendation systems use social media interactions, buying trends, and browsing behaviour to promote goods and services that appeal to user tastes (Makosa, 2024). This strategy concerns long-term brand loyalty and the possible commercialisation of customer data even as it improves the consumer experience by building a flawless, easy buying process. These technologies raise consumer satisfaction, but they run the danger of encouraging too much dependence on algorithmic decision-making at the price of human discretion and creativity (Boppana, 2024).

Beyond recommendation engines, AI-powered customisation is becoming a necessary instrument for targeted advertising and content production. Real-time consumer data analysis uses AI algorithms to customise ads to individual tastes, geography, and online conduct. Hyper-targeted marketing ensures that the right audience receives the right message at the right time, increasing engagement and conversion rates (Krishna et al., 2024). Customers are less inclined to trust marketing communication that uses AI to create content. Automated marketing communications risk losing human touch, which may cause consumers to lose trust in the business and disengage. Marketing plans using artificial intelligence create ethical and practical issues. Some of them are protecting personal information, reducing bias in algorithms, and making decisions in an open way, including using AI. Oyewumi et al. (2024) state that although personalisation improves user experience, large data gathering and monitoring of personal information might occur without permission. This poses data security and use concerns. Artificial intelligence algorithms are complicating the use of personal data in marketing, which politicians and consumers are struggling with. Algorithmic biases in artificial intelligence models may encourage unfair targeting and discrimination, which would hurt the corporate brand and lower customer trust.

These difficulties demand a detailed study of AI-driven consumer-oriented marketing customisation. Artificial intelligence technologies increase engagement and revenue, but they need strict ethical and open data laws. Retailers have to find a compromise between artificial intelligence and client autonomy. AI-driven marketing might become ineffective, misleading, and annoying in the lack of further limitations on ethics and responsibilities. Examining artificial intelligence-driven design holistically and critically investigates how it affects data security in business, consumer delight, and brand interaction. This study will look at how much technology has let artificial intelligence be customised, the ethical consequences follow from there, and the best policies for AI-based marketing. This project will compile knowledge to help businesses enhance their AI personalisation plans and simultaneously encourage customer trust and transparency.

Theoretical Framework

The integration of AI-driven personalism into consumer marketing will be fully evaluated using the Technology Acceptance Model (TAM) and the Stimulus-Organism-Response (S-O-R) Model. In artificial intelligence-driven marketing projects, this approach might help evaluate client engagement, trust, and conduct. These components let one examine consumer behaviour.

According to Davis's (1989) technology acceptance model (TAM), two main factors determining consumers' adoption of new technologies are perceived ease of use (PEOU) and perceived utility (PU). Customers involved in AI-driven customisation are more likely to support it according to the Technology Acceptance Model as they see it to enhance the buying experience. The balance between AI-driven personalization—which includes chatbot services, advising systems, and targeted marketing—and the trade-off between intrusion and usefulness will determine how successful technology is in enhancing user experiences and supporting decision-making.

While personalising AI could cut the availability of data, some customers may find it too invasive or difficult to grasp, therefore lowering consumer attractiveness. This speeds up decision-making, but it also carries some hazards. The most important challenge is to ensure that AI-driven marketing solutions are beneficial and easily accessible, without jeopardising customer sovereignty. Brands have to be careful not to give automation top priority at the price of building confidence as the seeming obtrusiveness of AI interactions might reduce interaction and brand loyalty. Thus, even if TAM provides a useful framework for comprehending AI adoption, ethical issues and open policies must be included to keep customer support. Important for AI-driven customisation, TAM discovers consumer acceptance or rejection of AI-based marketing ideas. Al-Emran & Granič (2021) counsel businesses to use artificial intelligence interfaces and openness to raise consumer acceptance.

Analysing the influence of outside events on consumer emotions and behaviour enforces the Stimulus-Organism-Response (S-O-R) Model therefore enhancing our understanding of AI-driven customisation (Vafaei-Zadeh et al., 2024). Artificial intelligence-driven customisation therefore serves as a catalyst, evoking cognitive and emotional reactions (organisms), which at last result in consumer responses (responses), including engagement, purchase intention, or scepticism. A well-organised AI-driven recommendation system may inspire positive emotions like trust and excitement, hence raising customers' need to connect with the company (Jeong et al., 2022). Negative emotions like distrust and fear, however, can cause avoidance behaviour should artificial intelligence-driven customising be seen as too intrusive or if consumers feel their data privacy has been breached. Since it emphasises the psychological and emotional aspects of consumer reactions to artificial intelligence personalisation, so stressing the need of brands to design interactions driven by artificial intelligence that promote good emotions while lowering data security and ethical issues concerns, the S-O-R model is essential in this study.

Two comprehensive theoretical frameworks for studying the effects of AI on consumer marketing personalisation are the Technology Acceptance Model (TAM) and the Stimulus-Organism-Response (S-O-R) Model. The TAM focusses on customer acceptance and engagement via the use of artificial intelligence-powered marketing technology, as opposed to the S-O-R model, which examines the psychological and emotional responses that impact consumer decision-making. The integration of these models will help us develop a thorough grasp of how to maximise the use of AI customisation techniques to enhance brand engagement while accounting for ethical and data protection issues. This all-encompassing strategy emphasises the need of maintaining autonomy and trust while providing outstanding customer service. Consequently, it enables a more thorough examination of the impact that artificial intelligence now has.

AI-Driven Personalization: Transforming Consumer-Centric Marketing

Artificial intelligence technologies like machine learning, predictive analytics, and NLP have revolutionised digital marketing. These technologies provide extraordinary personalisation, sparking the revolution. Brands may now provide targeted advertising, personalised suggestions, and dynamic content based on consumer interests thanks to these advancements by (Mehrabian & Russell, 1974). Despite improving marketing efficiency, automation-driven personalisation always raises ethical, operational, and customer trust issues.

Morton et al. (2024) say machine learning is useful for investigating large datasets. This is because these methods reveal trends and forecast customer behaviour. These data-driven algorithms allow marketers to create highly targeted ads for certain consumers. These algorithms may predict purchases. This data-driven strategy is more exact than demographic targeting since it considers needs and

preferences. Conversion rates have grown dramatically due to this strategy. This level of accuracy raises critical challenges about how to reconcile consumer privacy with marketing performance. Overusing artificial intelligence as an inspiration might surreptitiously influence customer choices, reducing their autonomy.

Artificial intelligence boosts marketing efficiency and forecast accuracy, according to Ullah et al. (2025). Reducing decision fatigue and boosting customer concept confidence does this. Perfect connections enabled by real-time engagement technology improve consumer-brand relationships. Xu et al. (2024) show how predictive analytics helps brands manage resources, estimate consumer demand, and optimise marketing tactics. Though these advantages are obvious, depending too much on AI technology runs the danger of diminishing the human aspect in marketing, thereby maybe rendering relationships mechanical or impersonal (Patil, 2025).

As mentioned by Raden & Puspita (2024), AI-driven tactics may help increase operational efficiency, stimulate product innovation, support dynamic pricing, and allow more focused marketing. Since it lets virtual assistants and chatbots answer customer questions with speed and contextual correctness, NLP especially helps to improve consumer interactions (Sharma et al., 2022). Moreover, sentiment analysis enabled by natural language processing helps brands to understand customer sentiments and modify messages to create a more sympathetic and personal relationship. Over-reliance on automated interactions, however, runs the danger of ignoring the human touch—which is still very necessary for developing real connections with customers.

Notwithstanding these benefits, integrating artificial intelligence technology into digital marketing poses numerous important problems. Often in ways that were not expected by marketers, consumers are still adjusting their behaviour to include new technology (Mogaji & Jain, 2024). Data privacy is still a big issue as artificial intelligence-driven personalisation entails large data collecting and processing that begs issues regarding user permission and data security (Ganesh, 2024). Brands that want to maintain consumer trust and comply with regulatory requirements must give transparency and suitable data management first priority.

Impact of AI-Powered Personalization on Consumer Engagement and Brand Loyalty

Artificial intelligence (AI) has revolutionised the connection between firms and their customers by making digital marketing more customised. Artificial intelligence-driven customisation promotes customer engagement, contentment, and loyalty, improving the consumer-company connection, according to Vij et al. (2024). Given this, deliberate development of artificial intelligence may strengthen connections and foster lifelong customer loyalty. Broklyn et al. (2024) recommend significant research on how artificial intelligence affects customer-company relations. This research must include both the pros and cons of this phenomenon, including algorithmic biases and privacy concerns. One may conclude that artificial intelligence's ethical dilemmas outweigh its capacity to improve human ties.

Rane et al. (2024) say artificial intelligence has changed how individuals and brands interact. These advancements enable customised information and marketing initiatives. Predictive analytics and machine learning allow organisations to study consumer preferences and patterns. This allows marketing messages to be current and relevant. Virtual assistants and artificial intelligence boost consumer connection with their fast and tailored replies. These technologies also enable quick communication. Even though automation increases output, ineffective management may lead to personality less interactions.

Academics from several schools are studying how tailored AI interactions may enhance customer service. Mimani et al. (2024) found that AI-driven recommendation systems increase user experience by recommending products and services based on browsing behaviour and past purchases. This level of personalisation promotes business-consumer connections, which increases sales. The recipient may feel exhausted or sceptical if the information is too intimate, according to Wang et al. (2024). This shows how important it is to strike a balance between consumer sovereignty and tailored experiences. Therefore, this balance is crucial.

Thus, AI-driven customisation can boost customer satisfaction, which is vital to a company's success. This is because consumer satisfaction matters. Shopping may be more enjoyable if artificial intelligence can accurately forecast customer preferences and wants. Zahra

et al. (2023) argue that by means of tailored support, effective customer service, and emotional evaluation, companies may help to minimise client problems. This raises the public awareness of the business. There is a fine difference between too much activity and beneficial changes. Consumers like companies that give their preferences first priority; yet, this is not always relevant to every company.

Data safety and confidence in AI-generated customisations continue to cause questions. Customers are becoming more conscious of their personal data acquisition and use, according to Habbal et al. (2024). When artificial intelligence systems render decisions on behalf of individuals, some raise concerns about their privacy and security of data. Improving personalisation might not be successful if people see artificial intelligence as intrusive or providing false information. Clear data rules and ethical artificial intelligence technologies must be used to guarantee consumer delight and thereby help to overcome these problems.

Singh & Kaunert (2024) claim that the use of artificial intelligence in customisation enhances the quality of important consumer interactions, hence enhancing brand confidence. By utilising tailored marketing strategies, companies may build a strong emotional connection with their consumers, therefore strengthening respect and understanding. Customised interactions, according to Ahmad & Akbar (2024), improve the connection between consumers and a company, therefore boosting repeat business and increasing long-term confidence. Adoption of customised incentive-based reward programs and other AI-driven approaches for client retention has greatly advanced this link.

Chen et al. (2023) say that closely supervising tailored AI-based services helps to prevent customer alienation. If one rely only on technology without consulting others, the results might look forced and indifferent. Consumers always give personal relationships top priority in brand interactions; consequently, brands which combine artificial intelligence-driven customisation with a human touch are more likely to build loyalty.

Ethical Challenges and Future Directions in AI-Powered Personalization

By allowing businesses to provide more tailored experiences and hence increase customer engagement and brand loyalty, AI-driven personalisation has revolutionised consumer marketing. Particularly with customer trust, algorithmic bias, and data privacy, Bashynska (2023) argues that this change generates major ethical questions. Maintaining consumer trust and sustaining long-term customising initiatives depend on brands using more and more on artificial intelligence to provide marketing experiences being resolved of course. Future studies should investigate how artificial intelligence-driven customisation could be altered to maintain user interaction while balancing ethical obligations with economic aims.

Customer data privacy is a fundamental problem in AI-driven customisation. Hemalatha (2024) claims that personalising calls for gathering a lot of consumer data including preferences, online activity, purchase history, and preferences. Although this data lets businesses create important and relevant relationships, it also raises questions about customer autonomy and data security. Many customers show concern about data monitoring, particularly in cases of ignorance of how their data is used. Brands that ignore ethical data management and openness run the danger of eroding consumer trust.

To resolve these problems, Khan and Naseeb (2024) suggest that successful important pieces of legislation such as the General Data Protection Regulation (GDPR) and the California Consumer Privacy Act (CCPA) exists. Organisations still struggle to assure compliance even though these regulations demand user consent and prevent data abuse. However, they provide very customised experiences. Some brands have complex privacy policies that are hard for consumers to understand, leading to users unintentionally consenting to the gathering of intrusive data. Organisations must prioritise gaining user consent, establish transparent and readily accessible privacy policies, and strengthen their control over the use of personal data to properly handle this problem.

Lata (2024) said that a key ethical concern remains algorithmic prejudice in AI-driven personalisation. Developed utilising past consumer data, AI models may reveal natural biases resulting in unfair targeting or the exclusion of certain consumer groups. Biassed AI systems, for example, may favour high-spending consumers while ignoring others or they might support prejudices in advertisement

targeting. These prejudices not only impede diversity but might also lead to unintentional unfavourable opinions of the business among customers who feel neglected or mistreated.

According to Nwant et al. (2025), marketers have ethical obligations to ensure that personalised AI driven is fair and objective. The complexity of artificial intelligence decision-making makes problems still present even if many businesses do audits to find and reduce biases. Personalisation used to gradually affect customer behaviour and change purchase choices without their express understanding raises ethical concerns. While personalisation seeks to improve the customer experience, too aggressive or exploitative behaviour causes pain and mistrust, therefore undermining brand connections.

Future research should concentrate on consumer opinions on ethical personalisation tactics to improve AI-powered personalisation in sustainable consumer-centric marketing and AI-driven marketing itself. Many customers clearly appreciate and improve their experience by means of personalisation. Customers may show reluctance to excessively predictive or intrusive personalisation. Understanding the fine balance between personalising that increases engagement and personalisation that reduces consumer autonomy calls for research.

One important field of research is how consumers customize artificial intelligence in terms of fairness. Studies on the effects of customisation on different customer categories should help to ascertain if artificial intelligence ideas really reflect personal preferences or merely serve to further corporate goals. Should artificial intelligence-driven personalisation disproportionately help certain consumer groups, businesses run the risk of alienating a large segment of their intended target market. Future studies should seek to provide suggestions for ethical customising that give consumer agency and inclusion top priority above improved engagement or profitability.

Discussion

By combining NLP, predictive analytics, and machine learning, organisations can tailor consumer experiences and boost engagement. Personal suggestions, chatbot interactions, and adaptive advertising provide real-time market intelligence. However, excessive customisation may lead to mechanical interactions that degrade authenticity and fatigue consumers.

Artificial intelligence that anticipates and solves consumer needs may boost consumer satisfaction. Artificial intelligence allows customer care systems to give personalised responses, reducing resolution times and improving user experiences. Although this is true, consumers are growing more wary of how corporations gather and utilise their personal data, which has heightened their respect for transparency and confidentiality. Open and transparent approval procedures help build confidence in AI-powered marketing. Algorithmic biases might lead to unfair targeting and exclusion, eroding consumer faith in organisations.

Individualised incentives and rewards may enhance brand loyalty, but firms must balance automation and human engagement to ensure ethical, inclusive, and ecologically sustainable AI-driven customisation. This balance requires honesty, impartiality, and a genuine desire to connect with consumers. The correct application of artificial intelligence in data-driven marketing builds strong customer-brand ties and brand trust.

Conclusion

The capacity of artificial intelligence to personalise experiences has changed the approach of marketers towards their consumers. Within the marketing sector, this has resulted in increased consumer participation, satisfaction, and brand loyalty. Through machine learning, predictive analytics, and natural language processing, artificial intelligence helps people to communicate continuously. This gives the company more active and responsive corporate surroundings. Adoption of artificial intelligence in marketing might decrease consumer confidence and restrict individual opinions owing to ethical concerns, data security problems, and computer flaws.

Customisation helps to build customer relationships, but an excess of technology might make conversations seem forced. Establishing ethical standards for artificial intelligence, supporting data openness, and creating responsible customising strategies that balance human autonomy with technology development should be the main priorities of next studies. Marketers utilising artificial intelligence have to embrace more ethical methods if they want to build trust with customers.

References

01. Ahmad, B., & Akbar, M. I. ud D. (2021). Validating a multidimensional perspective of relationship marketing on brand attachment, customer loyalty and purchase intentions: A serial mediation model. Journal of Strategic Marketing, 31(3), 1–24. doi:10.1080/0965254x.2021.1969422

02. Al-Emran, M., & Granić, A. (2021). Is it still valid or outdated? A bibliometric analysis of the technology acceptance model and its applications from 2010 to 2020. In Studies in Systems, Decision and Control (pp. 1–12). Springer. doi:10.1007/978-3-030-64987-6_1

03. Alsharida, R., Hammood, M., & Al-Emran, M. (2021). Mobile learning adoption: A systematic review of the technology acceptance model from 2017 to 2020. International Journal of Emerging Technologies in Learning (iJET), 16(5), 147–162. Retrieved from https://www.learntechlib.org/p/220074/?nl=1

04. Bashynska, I. (2023). AI-driven personalization in advertising: Transforming consumer engagement through sustainability and circular economy. Scientific Journal of Bielsko-Biala School of Finance and Law, 27(4), 105–111. doi:10.19192/wsfip.sj4.2023.15

05. Boppana, V. R. (2024). AI integration in CRM systems for personalized customer experiences. SSRN Electronic Journal. doi:10.2139/ssrn.4987149

06. Broklyn, P., Olukemi, A., & Bell, C. (2024). AI-driven personalization in digital marketing: Effectiveness and ethical considerations. Retrieved fromhttps://papers.ssrn.com/sol3/papers.cfm?abstract_id=4906214

07. Chen, A. Y., Koegel, S. I., Hannon, O., & Ciriello, R. (2023). Feels like empathy: How 'emotional' AI challenges human essence. Retrieved from https://aisel.aisnet.org/acis2023/80/

08. Ganesh, A. (2024). The impact of social media on consumer behavior: An AI-enhanced approach to marketing strategies. SSRN Electronic Journal. doi:10.2139/ssrn.4985407

09. Habbal, A., Ali, M. K., & Abuzaraida, M. A. (2024). Artificial intelligence trust, risk and security management (AI TRiSM): Frameworks, applications, challenges and future research directions. Expert Systems with Applications, 240, 122442. doi:10.1016/j.eswa.2023.122442

10. Hemalatha, R., Amulya, G., & Sai, N. (2024). AI-driven customer segmentation for personalized marketing. In Proceedings of IC3TES 2024 (pp. 1–5). doi:10.1109/ic3tes62412.2024.10877505

11. Jeong, J., Kim, D., Li, X., Li, Q., Choi, I., & Kim, J. (2022). An empirical investigation of personalized recommendation and reward effect on customer behavior: A stimulus–organism–response (SOR) model perspective. Sustainability, 14(22), 15369. doi:10.3390/su142215369

12. Khan, W. N., & Naseeb, S. (2024). Personal data protection in the era of big data: Navigating privacy laws and consumer rights. Mayo RC Journal of Communication for Sustainable World, 1(1), 41–51. Retrieved from https://www.researchcorridor.org/index.php/mrcjcsw/article/view/146

13. Krishna, P. M., Praveen Kumar, T., Trinadh Reddy, R. V., & Ariwa, E. (2024). Customer-centric AI solutions. In Minds Unveiled (pp. 58–69). doi:10.4324/9781032711089-5

14. Kumar, V., Ashraf, A. R., & Nadeem, W. (2024). AI-powered marketing: What, where, and how? International Journal of Information Management, 77, 102783. doi:10.1016/j.ijinfomgt.2023.102783

15. Kusuma, J. (2024). Data science in marketing: How analytics are reshaping consumer insights. Advances: Jurnal Ekonomi & Bisnis, 2(2), 108–120. doi:10.60079/ajeb.v2i2.234

16. Lata, P. (2024). Beyond algorithms: Humanizing artificial intelligence for personalized and adaptive learning. Retrieved from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4987208

17. Makosa, S. (2024). Brand management driven by artificial intelligence. Retrieved from http://dspace.unive.it/handle/10579/26145

18. Mimani, S., Ramakrishnan, R., Rohella, P., & Jiwani, N. (2024). The utilization of AI extends beyond payment systems to e-commerce store development. [Details unavailable for full formatting]

19. Mogaji, E., & Jain, V. (2024). How generative AI is (will) change consumer behaviour: Postulating the potential impact and implications for research, practice, and policy.

Journal of Consumer Behaviour, 23(5). doi:10.1002/cb.2345

20. Morton, F., Treviño Benavides, T., & González-Treviño, E. (2024). Taking customer-centricity to new heights: Exploring the intersection of AI, hyper-personalization, and customer-centricity in organizations. In Management and Industrial Engineering (pp. 23–41). doi:10.1007/978-3-031-52990-0_2

21. Na, S., Heo, S., Han, S., Shin, Y., & Roh, Y. (2022). Acceptance model of artificial intelligence (AI)-based technologies in construction firms: Applying the technology acceptance model (TAM) in combination with the technology–organisation–environment (TOE) framework. Buildings, 12(2), 90. Retrieved from https://www.mdpi.com/2075-5309/12/2/90

22. Naqvi, M. H. A., Jiang, Y., & Naqvi, M. (2020). Generating customer engagement in electronic-brand communities: A stimulus–organism–response perspective. Asia Pacific Journal of Marketing and Logistics. Advance online publication. doi:10.1108/apjml-01-2020-0053

23. Nwanna, M., Offiong, E., Ogidan, T., Fagbohun, O., Ifaturoti, A., & Fasogbon, O. (2025). Mobile applications. Journal of Artificial Intelligence, Machine Learning & Data Science, 2025(1), 1920–1929. doi:10.51219/JAIMLD/maxwell-nwanna/425

24. Oyewumi, D., Matthew, O., Preston, D., & Boohene, D. (2024). Trust beyond technology algorithms: A theoretical exploration of consumer trust and behavior in technological consumption and AI projects. Retrieved from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4879031

25. Patil, D. (2025). Generative artificial intelligence in marketing and advertising: Advancing personalization and optimizing consumer engagement strategies. doi:10.2139/ssrn.5057404

26. Raden, D., & Puspita, V. (2024). AI-based marketing mix model of consumer electronics industry. PaperAsia, 40(6b), 299–308. doi:10.59953/paperasia.v40i6b.303

27. Raji, M. A., Olodo, H. B., Oke, T. T., Addy, W. A., Ofodile, O. C., & Oyewole, A. T. (2024). E-commerce and consumer behavior: A review of AI-powered personalization and market trends. GSC Advanced Research and Reviews, 18(3), 66–77. doi:10.30574/gscarr.2024.18.3.0090

28. Rane, N., Paramesha, M., Choudhary, S., & Rane, J. (2024). Artificial intelligence, machine learning, and deep learning for advanced business strategies: A review. Partners Universal International Innovation Journal, 2(3). doi:10.5281/zenodo.12208298

29. Sharma, D., Reddy, N., Gupta, P., & Sharma, R. (2022). Enhancing customer experience personalization through AI: Leveraging collaborative filtering, neural networks, and natural language processing. Journal of AI ML Research, 11(7). Retrieved from www.joaimlr.com/index.php/v1/article/view/32

30. Singh, B., & Kaunert, C. (2024). Future of digital marketing: Hyper-personalized customer dynamic experience with AI-based predictive models. In Productivity Press eBooks (pp. 189–203). doi:10.4324/9781032688305-14

31. Ullah, D. N., Gulzar, M. F., & Arshad, A. A. (2025). Enhancing consumer purchase intention in Pakistan market: The role of AI personalization, prediction accuracy, and real-time engagement. Asian American Research Letters Journal, 2(1), 69–74. doi:10.5281/hc81xc53

32. Vafaei-Zadeh, A., Nikbin, D., Wong, S. L., & Hanifah, H. (2024). Investigating factors influencing AI customer service adoption: An integrated model of stimulus–organism–response (SOR) and task-technology fit (TTF) theory. Asia Pacific Journal of Marketing and Logistics. Advance online publication. doi:10.1108/apjml-05-2024-0570

33. Venkateswaran, N. (2023). AI-driven personalization in customer relationship management: Challenges and opportunities. Journal of Theoretical and Applied Information Technology, 101(18). Retrieved from www.jatit.org/volumes/Vol101No18/22Vol101No18.pdf

34. Vij, M., Vij, A., Kumar, P., & Shameem, B. (2024). Impact of AI-driven customer insights on brand engagement and loyalty in tourism marketing. In ICCR 2024 (pp. 1–6). doi:10.1109/iccr61006.2024.10532832

35. Wang, C., Ahmad, S. F., Ahmad, A. B., Awwad, E. M., Irshad, M., Ali, Y. A., Al-Razgan, M., Khan, Y., & Han, H. (2023). An empirical evaluation of technology acceptance model for artificial intelligence in e-commerce. Heliyon, 9(8), e18349. doi:10.1016/j.heliyon.2023.e18349

36. Wang, Z., Yuan, R., & Li, B. (2024). Are recommendation systems annoying? An empirical study of assessing the impacts of AI characteristics on technology well-being. Journal of Consumer Behaviour. Advance online publication. doi:10.1002/cb.2408
37. Xu, Y., Ma, Y., Hu, R., & Wang, H. (2024). Predictive analytics techniques in consumer behaviour: A literature review. Advances in Economics, Management and Political Sciences, 97(1), 20–31. doi:10.54254/2754-1169/97/20231516
38. Zahra, A. R. A., Jonas, D., Erliyani, I., Rosdiana, & Yusuf, N. A. (2023). Assessing customer satisfaction in AI-powered services: An empirical study with SmartPLS. International Transactions on Artificial Intelligence, 2(1), 81–89. doi:10.33050/italic.v2i1.432