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# Bibliographic Analysis: Ai-Powered Consumer Behaviour And Consumer Retention

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#### Abstract

Introduction Artificial intelligence is now assisting companies in understanding and keeping customers better in marketing and CRM. Through the integration of multidisciplinary literature from the fields of marketing, data science, and cognitive psychology, researchers are able to determine how artificial intelligence facilitates behavioural nudges, predictive analytics, and hyper-personalization in order to impact and maintain customer engagement. Personalised customer experiences, sentiment analysis powered by AI, consumer churn prediction modelling, and the usage of chatbots to improve customer engagement are some of the major subjects examined in the study.

*Objectives*-The paper aims to determine how artificial intelligence facilitates behavioural nudges, predictive analytics, and hyper-personalization in order to impact and maintain customer engagement.

Method-It highlights well-known writers, prestigious publications, and widely used approaches including text mining, machine learning, and quantitative surveys. The review reveals a notable increase in publications after 2018, highlighting the growing interest in the topic among academics and practitioners with the help of bibliographic analysis. Results-Personalised customer experiences, sentiment analysis powered by AI, consumer churn prediction modelling, and the usage of chatbots to improve customer engagement are some of the major subjects examined in the study.

Conclusion The conceptual framework presented in the study connects AI capabilities with insights into customer behaviour and retention tactics. New fields like data privacy, emotional AI, and ethical AI are acknowledged as crucial avenues for the future. In addition to offering insights into possible gaps and opportunities for additional research in AI-driven consumer behaviour and retention methods, the paper presents a systematic assessment of current research trends.

Keywords: artificial intelligence, consumer behaviour, engagement, retention, personalization,

## 1. INTRODUCTION:

The ability of organisations to engage, retain, and comprehend their customers has become more important than ever in today's digital-first industry. Artificial Intelligence is complementing and in many cases, revolutionizing traditional marketing and CRM strategies in response to the rapid expansion of data, the complexity of customer behaviour, and the need for real-time responsiveness. AI is becoming a crucial component of businesses to utilise to develop individualised, effective, and predictive customer experiences; it is no longer a future idea.

Artificial intelligence in CRM and marketing is changing how businesses engage with their clients at several touchpoints. Businesses can use AI to not just analyse client behaviour but also to meaningfully affect it by combining insights from data science, marketing, and cognitive psychology (Reyes, M., 2024). The creation of tools and systems that support behavioural nudging, hyper-personalization, and predictive analytics important factors in determining customer engagement and retention in the contemporary business environment is made possible by technologies like machine learning, natural language processing, and deep learning (DeZao, T., 2024).

The study investigates how AI is revolutionising consumer interaction strategies. It seems that the use of AI technology in sentiment analysis, customer churn prediction, personalised customer experiences, and intelligent chatbots to improve user engagement.

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A comprehensive review of a wide range of literature seeks to understand how these newly featured AI capabilities relate to evolving customer demands and company goals. The increase of related papers, especially after 2018, shows that AI-driven marketing is attracting more and more attention in academia and practice.

Through bibliographic research, the study synthesises this expanding body of knowledge, identifying important authors, prestigious publications, and widely used techniques including text mining, machine learning models, and quantitative surveys. The evaluation highlights new trends and research gaps in addition to charting the current environment.

By means of an extensive examination of interdisciplinary literature, the study advances our knowledge of how AI is influencing marketing and customer relationship management in the future by allowing businesses to engage with customers more predictably and personally. In addition to hinting towards potential future research topics like emotional AI, data protection, and the ethics of AI-driven engagement, it offers a conceptual framework that connects AI technology with insights into consumer behaviour and retention tactics.

## Artificial Intelligence in Consumer Behaviour

Businesses' understanding of and responses to customer behaviour are being fundamentally altered by artificial intelligence (Al). Al gives businesses the ability to find trends, forecast future behaviour, and provide individualised experiences at scale by utilising enormous volumes of customer data. Three main areas where AI has a big impact on consumer behaviour are listed below:

## 1. Personalisation and Recommendation Systems

At the heart of modern methods of customer is personalization. AI-based recommendation systems, particularly those driven by machine learning techniques such as deep learning, content-based provenance, and collaborative provenance, have absolutely reshaped the way consumers are presented with products and services. In order to offer tailored recommendations, these systems analyse numerous customer data, such as browsing history, purchase history, demographic information, and in-session behaviour. For example, recommendation engines allow websites such as Amazon and Netflix to recommend content or products that users are most likely to be interested in. And this means happier customers and higher conversion rates. In addition, it is instantaneous personalization which allows businesses to augment offers dynamically using changing client preferences and their context (such as location, time of day or device used). This provides a stronger emotional connection to the brand and therefore more memorable consumer experiences.

#### 2. Sentiment Analysis

Another powerful AI mechanism for determining the emotional tenor of social media posts, online reviews, and customer comments is sentiment analysis via natural language processing (NLP). Subtle emotions e.g., anger, joy and annoyance, can also be detected by AI systems and text can be classified as such, using linguistic patterns AI systems developed and classified (Chen, Y., Prentice, C., Weaven, S., & Hisao, A. 2022). Businesses use sentiment analysis to monitor how the public feels about their brands, identify new issues and enhance their marketing strategies. For instance, by being able to apply real-time sentiment analysis, brands will be able to enhance customer happiness in general, addressing complaints in real-time and defuse negative comments before they become too damaging.

#### 3. Analytics for Prediction

Another powerful AI mechanism for determining the emotional tenor of social media posts, online reviews, and customer comments is sentiment analysis via natural language processing (NLP). Subtle emotions e.g., anger, joy and annoyance, can also be detected by AI systems and text can be classified as such, using linguistic patterns AI systems developed and classified (Chen, Y., Prentice, C., Weaven, S., & Hisao, A. 2022). Businesses use sentiment analysis to monitor how the public feels about their brands, identify new issues and enhance their marketing strategies. For instance, by being able to apply real-time sentiment analysis, brands will be able to enhance customer happiness in general, addressing complaints in real-time and defuse negative comments before Predictive analytics can help businesses move from reactive to proactive decision-making, increasing customer retention and lifetime value (Rawat, K., Deep, S., Sachan, A., & Rai, A., 2024).

## AI in Retaining Customers

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Retaining customers is one of the primary foundations of long-term business success. It is far less expensive to retain existing customers than to find new ones, and artificial intelligence is increasingly being used to assist in achieving strategic goals. By evaluating behavioural patterns, predicting potential customer attrition, and enhancing customer service, AI assists companies in proactively engaging and retaining their clientele. This section highlights three important AI applications for client retention:

## 1. Customer Segmentation

Artificial intelligence (AI) transforms conventional customer segmentation by offering dynamic, datadriven groups based on real-time behavioural and transactional data. Unlike static demographic segmentation, AI-powered systems look at a variety of characteristics, such as customer lifetime value, engagement levels, frequency of transactions, browsing behaviours, and response to promotions.

Machine learning models, which include clustering techniques like K-means and hierarchical clustering, are commonly used to uncover hidden patterns in consumer behaviour. These data enable businesses to more efficiently generate micro-segments and tailor marketing strategies for each group. For instance, reactivation campaigns might focus on less active customers, whereas high-value clients might receive loyalty benefits or special offers (Nagy, S., & Hajdu, N., 2022). This dynamic and smart strategy creates more appealing and significant client experiences, which directly drive higher retention rates.

## 2. Predicting Customer Attrition

One of the best applications of AI in retention strategy is early customer churn identification. Using machine learning models based on past customer data, such as frequency of sales, product returns, periods of inactivity, or decreased contact, businesses may determine which customers are most likely to depart. To create churn prediction models, supervised learning methods like as neural networks, decision trees, and support vector machines are frequently employed. Businesses can re-engage high-risk consumers before they churn by implementing preventive measures like tailored outreach, tailored offers, or improved service interactions.

By being attentive and caring, this proactive strategy not only lowers revenue loss but also increases customer trust (Choung, H., David, P., & Ross, A., 2022).

#### 3. Al-Enhanced Customer Service

After-purchase experiences are greatly influenced by customer service. Through chatbots, voice-activated systems, and intelligent virtual assistants, artificial intelligence has greatly improved the capability and responsiveness of customer assistance.

AI-powered chatbots are able to respond instantly and consistently to a variety of consumer questions around the clock. They can help with things like product recommendations, troubleshooting, order tracking, and FAQs. More sophisticated AI systems converse like humans and refer complex problems to human agents when necessary by using Natural Language Processing (NLP) and sentiment recognition (Jahan, I., & Sanam, T. F., 2024).

The end effect is a smooth, quick, and effective customer service experience that increases client loyalty and satisfaction. Additionally, AI systems gain knowledge from each encounter, which enhances their capacity to handle problems in the future.

## RESEARCH METHODOLOGY

In the current study Scopus, Web of Science, and Google Scholar are the databases from which academic literature has been systematically reviewed as part of this bibliographic inquiry. Among the keywords used are "AI in consumer behaviour," "AI and customer retention," and "machine learning in marketing." The study's main focus is on peer-reviewed journal articles published between 2018 and 2024.

Key Aspects of AI in consumer behaviour

Key Aspects	Description	Sources
Artificial Intelligence and machine learning	Transformative potential of conversational AI in marketing, decision trees and neural networks, forecasting customer churn and enhancing loyalty.	S., & Hajdu, N. (2022)

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AI-based	conversational AI, consumer	Zhang et al, 2020, Rawat, K., Deep, S.,
recommendation	engagement through chatbots and	Sachan, A., & Rai, A. (2024), Chen,
systems	virtual assistants, consumer decision-	Y., Prentice, C., Weaven, S., & Hisao,
	making processes and consumer	A. (2022)
	variations.	
Customer retention	AI influences consumer attitudes,	Verbeke et al, 2019, Muhammad
	preferences, and decision-making	Farooq & Yee Yen Yuen, 2024
	processes.	
AI and Consumer	Al-driven strategies that enhance	Xu, Teo,2022, Maddela Prasanthi et
Trust	customer satisfaction and brand	al. 2024, Draws, T., Szlávik, Z.,
	loyalty. It highlights algorithmic	Timmermans, B., Tintarev, N.,
	fairness and disparate impact affect	Varshney, K. R., & Hind, M. (2021)
	consumer trust in AI systems.	

Materials and Methods: From 2018 to 2025, the study's primary focus was a methodical review of the literature, including research papers and publications. It provides a summary of the body of research on AI-powered customer behaviour and retention, focusing on its main topics and effects. A bibliography analysis of 393 articles is included in the study; 136 papers that were published prior to 2018 were excluded. With the use of the Scopus database, 257 articles were examined in order to provide a thorough investigation of relevant fields. The 53 articles that were deemed irrelevant and written in a language other than English were removed. For analysis purposes, 189 papers in total were shortlisted.

Artificial intelligence, customer loyalty, customer behaviour, and trust are among the terms that are examined. The content analysis method has been used to conduct the systematic research. The study looked at how AI-enabled customer behaviour and retention has helped businesses, with an emphasis on boosting productivity and effectiveness. The PRISMA model and content analysis were used to create Figure 1.1 for the literature review.

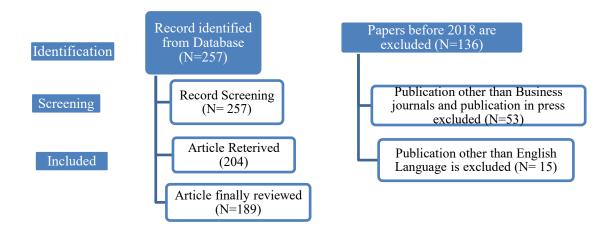


Fig. 1.1 PRISMA Model

Research Question:

Question 1: How does AI influence consumer decision-making?

Question 2: How do consumers perceive AI-enabled customer service (e.g., chatbots, virtual assistants) in terms of trust and satisfaction?

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Question 3: What are the publications trends in the field of 'AI powered consumer behaviour and retention?

Question 4: What are the ethical implications of using AI to monitor and influence customer loyalty and behaviour?

## **Bibliometric Analysis:**

Figure 1.2 below provides further details on the study's annual trend of publications examined. An expanding field, AI-powered customer behaviour and retention, is reflected in the study. Since 2018, the number of articles in the field has been increasing. According to previous research, businesses began implementing AI tools to comprehend customer behaviour and forecast customer attrition after 2018. Numerous studies have been carried out since 2018 and have revealed an increasing trend. With an R-squared value of 0.84 and a coefficient of correlation of 0.9138, the rise in publications is statistically significant and ongoing. As a result, the field of study is developing and important to both businesses and scholars.

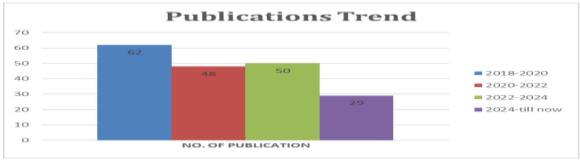


Figure 1.2 Complied by author

## **Content Analysis:**

A total of 189 publications were the subject of the study. It is evident from the literature review that the subject's significance increased significantly between 2018 and 2020. It's also important to comprehend how the development of AI has affected this shift in the field of interest for consumer behaviour. Generally speaking, 79% of the articles released in the most recent five years (2019–2024) focused on customer retention, purchasing patterns, and tailored initiatives.

It is worth noting that, according to the field of expertise in which they are published, only 72% of all topic areas in the Scopus database are classified as business, management, and social sciences papers. The current study demonstrates how AI increases marketing's efficacy. These include trust, customer satisfaction, retention, and consumer engagement tools. One may argue that recent advances in AI point to a fresh approach to improving customer satisfaction and retention.

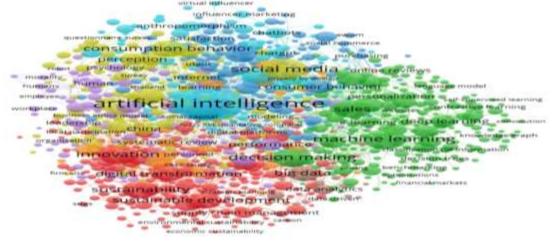


Figure-1.3 compiled by VOS Viewer Emerging Research Directions:

As AI develops further and permeates every facet of marketing and consumer interaction, new areas of study are opening up to examine not only technical developments but also the ethical, emotional, and communication ramifications of AI. These guidelines are essential for guaranteeing ethical innovation

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and long-term AI adoption in consumer-oriented sectors. Some of the most important areas of current and upcoming research include the following:

## 1. Consumer Analytics with Ethical AI

Ethical issues are becoming more important as companies depend more and more on AI-driven consumer information to inform their decisions. Designing and implementing AI systems that are open, equitable, and consistent with societal norms is known as ethical AI (Huang, M. H., & Rust, R. T., 2021). This entails that AI models in the context of consumer analytics don't propagate prejudices, target particular customer segments unfairly, or unethically influence consumer decisions.

Emerging research focuses on governance models that provide accountability, audit systems for AI decision-making, and frameworks for building ethical algorithms. It's also becoming more popular to use interdisciplinary perspectives from sociology, philosophy, and law to guide the creation of moral AI for marketing scenarios.

## 2. AI and Data Privacy Trade-offs

One of the biggest challenges confronting AI-driven marketing is striking a balance between privacy and customisation. AI systems involve a lot of consumer data to provide personalised experiences, but then the collection and use of this data offers major privacy issues. Legislative frameworks as the CCPA and GDPR, alongside customers' increasing knowledge of how their data is utilised, have raised the call for accountable data practices.

The present research examines the trade-offs between maximising AI benefits and limiting privacy gaps. It also analyses consumer consent processes, data anonymisation, federated learning (which keeps data on local devices), and privacy-preserving AI techniques like differential privacy. Considering these trade-offs are required to frame regulatory compliance and increase consumer trust in AI-driven marketing channels.

## 3. Generative AI's Role in Marketing Communications

Artificial intelligence (AI) systems are changing marketing communications, as a result of which they can create text, pictures, audio, and video. Marketers can systematize the formation of tailored product descriptions, email campaigns, social media content, and advertisements by using solutions such as image-generation platforms and GPT (Generative Pre-trained Transformer) models. Current research inspects the effects of generative AI on consumer perception, brand acceptability, and content effectiveness. Innovation, creativity, and the ethical use of synthetic media are the burning areas of the study.

Additionally, studies are being conducted on the responsible application of generative AI, ensuring that it enhances rather than replaces human creativity and communication (Li, J., Wu, L., Qi, J., Zhang, Y., Wu, Z., & Hu, S., 2023).

#### 4. Emotional AI and Affective Computing

The rapidly evolving field of artificial intelligence's ability to recognise, interpret, and respond to human behaviour. Emotional AI systems use physiological signs, facial expressions, voice tones, and behavioural cues to infer a customer's emotional state and mood.

Marketing researchers are looking into the potential applications of emotional AI, such as flexible advertising, emotionally intelligent chatbots, and consumer satisfaction monitoring.

However, the technologies' psychological effects, morality, and accuracy remain controversial. The main issues involve emotional manipulation, surveillance, and unanticipated consequences, highlighting the need for careful use and additional research into the ethical and practical applications of emotional AI.

#### Challenges Identified

Even though AI has greatly increased the efficiency of marketing and consumer engagement, numerous challenges remain before it can be extensively used. These challenges frequently involve moral, legal, and psychological aspects in addition to their technological ones. As AI systems become more integrated into consumer decision-making processes, researchers, marketers, and lawmakers need to address the following crucial issues:

## 1. Data privacy and algorithmic transparency

Even while AI has augmented the competence and creativity of marketing and consumer engagement, several challenges remain before it can be extensively used. These challenges frequently include moral, legal, and psychological aspects in addition to technological ones. As AI systems become more integrated

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into consumer decision-making processes, researchers, marketers, and lawmakers need to address the following crucial issues: One of the most well-known implementation issues of AI is ownership, security, and permission, all which are raised by the storage, use, and sharing of such data. With strong regulations like the CCPA, GDPR, and India's Digital Personal Data Protection Act, corporates must now carefully balance using AI with enduring with data protection laws.

## 2. Consumer Resistance to Al-Based Personalisation

Even if AI-based customisation aims to enhance the customer experience, not all consumers have a positive opinion of it. Consumer confrontation may result from feelings of manipulation, loss of autonomy, or invasive surveillance. The term "creepiness factor" describes the propensity for hyperindividualized ads or information that is "too accurate" to suggest mistrust or anxiety. Studies show that if customers are unaware of how their data is being used or if customisation becomes overly intrusive, they may become less trusting of a company.

This increasing mistrust emphasises the need for transparent information, user control over data preferences, and ethically sound personalisation mechanism design (Feng, Y., 2023). If these problems are not adequately addressed, they may lead to negative reactions, a decline in involvement, or even brand boycotts.

## 3. Ethical Dilemma in Profiling and Targeting

The ethical issues with AI's ability to accurately segment, profile, and target customers, particularly when these abilities are used to exploit their vulnerabilities. For example, targeting people for certain products based on psychological traits (such as loneliness or anxiety) or financial instability may be morally questionable, especially if it encourages impulsive or harmful behaviours. When marketing to youngsters or those with poor levels of digital literacy, these moral problems are particularly difficult. Additionally, through algorithmic prejudice, profiling in sectors like banking, insurance, or health may lead to discriminatory practices directly or indirectly. There is growing scholarly and policy-level debate on how to set ethical boundaries in behavioural targeting and profiling. Some of the solutions under consideration include inclusive algorithm design, ethical audits of AI systems, and the creation of transparent AI governance frameworks that prioritise the needs of customers over short-term financial gain.

#### Implications for the study

For scholars and business professionals, research on the impact of artificial intelligence (AI) on consumer behaviour and customer retention yields important and profound findings with wide-ranging implications. As artificial intelligence (AI) technologies advance and gain traction in marketing and customer relationship management (CRM), research describes how companies are utilising intelligent systems to better understand, influence, and engage with customers. The most obvious effect is a shift in tailored marketing tactics. AI helps companies toward go from generic advertising to hyperpersonalization, which produces unique, real-time experiences, by continuously evaluating user preferences, behaviours, browsing patterns, and previous purchases. Businesses can now better serve their customers thanks to this shift, which increases customer satisfaction and promotes repeat business.

Businesses also need to develop advanced data management systems and invest in machine learning and analytics to stay competitive. Al-driven customization is no longer optional in the digital marketplace; it is now a strategic necessity. This shift also increases the need for greater accountability in algorithm transparency, customer data privacy, and security. Another key implication is that AI could transform marketing strategies from reactive to proactive. Using predictive analytics and churn prediction tools, organizations can forecast customer behavior, detect early signs of disengagement, and take corrective actions before customers leave. This proactive approach allows businesses to address dissatisfaction early, especially in crowded markets where switching costs are low. The paper emphasizes that AI should be integrated at all levels of an organization, not just in data or marketing departments, for this shift to succeed. AI can enhance decision-making, customer service, product development, and even human resources by providing consumer insights. Such cross-functional AI use requires collaboration across departments and a strong data literacy culture, diverging from traditional organizational structures. The study also highlights the importance of combining AI with sentiment analysis and emotional intelligence. AI systems can now discern subtle emotional cues in social media posts, reviews, and feedback, helping

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brands better understand how their audience truly feels about their offerings. Using this data, companies can refine their communication to be more emotionally intelligent, respond more effectively to feedback, and align strategies with customer sentiments. This suggests future marketing campaigns should focus on emotionally engaging interactions alongside logical targeting. While this approach can strengthen consumer-brand relationships, it also raises ethical concerns. Companies must ensure that emotional AI is used responsibly, avoiding emotional manipulation or exploiting less resilient customers. Emotional considerations in AI-driven marketing should be handled with care, transparency, and respect to foster trust rather than erode it. The interdisciplinary aspect of this research also bears significance for academia. The study references fields like behavioural economics, data science, marketing, and cognitive psychology to highlight the need for a comprehensive approach to understanding AI's impact on consumer experiences. This holistic view is vital because it reflects the complexity of real-world applications, where AI subtly influences human decision-making. For researchers, this means adopting mixed-method approaches, developing robust theoretical frameworks, and evolving research methods to promote interdisciplinary collaboration.

It encourages future academics to explore the intersection of digital systems, human cognition, and market dynamics rather than adhering to compartmentalised study in order to provide more meaningful and practical findings.

Another immediate consequence is the ethical application of AI to consumer profiling and behavioural targeting. AI's increasing ability to collect, analyse, and act upon consumer data raises serious ethical questions around autonomy, manipulation, and consent. Hyper-targeting has the potential to exacerbate cognitive biases or exploit consumer vulnerabilities if it is implemented unethically. Targeting consumers with goods designed to alleviate emotional states like anxiety or loneliness, for instance, may boost sales but is unethical.

The study concludes that companies must adopt ethical AI frameworks that promote responsibility, fairness, and diversity.

This means establishing AI audit systems, ethical review boards, and including ethicists in the development and use of consumer-facing AI technologies. Furthermore, it implies that corporate social responsibility now needs to include digital ethics, which means businesses need to reevaluate their innovation projects from an ethical standpoint.

One of the most significant concerns and repercussions in the context of AI-powered marketing is data privacy. As businesses collect vast amounts of personal and behavioural data to feed AI models, authorities and consumers are increasingly scrutinising how they use, keep, and exchange data. The paper highlights the effects of regulations such as the General Data Protection Regulation (GDPR), the California Consumer Privacy Act (CCPA), and India's Digital Personal Data Protection (DPDP) Act, in addition to the growing consumer awareness of data rights. These frameworks demand that data processing practices be accountable, transparent, and consent-based. Businesses must now prioritise adopting privacy-preserving techniques, including data anonymisation, federated learning, and differential privacy. Additionally, it becomes imperative to have honest and transparent communication with clients on the use of their data. Businesses that handle data carelessly risk losing their customers' trust and facing legal action, which could negatively impact their brand equity. Not only are there technical ramifications, but there are also reputational ones.

Both user satisfaction and operational effectiveness are significantly impacted by AI-enhanced customer service. The way businesses interact with their clients has been transformed by the use of voice assistants, virtual agents, and intelligent chatbots.

These tools lower operating expenses, provide reliable, round-the-clock support, and free up human agents to work on more difficult jobs. Nonetheless, the report advises businesses to refrain from overautomation. Even while AI can handle everyday encounters, human empathy and judgment are still needed for complex or emotionally sensitive situations. The consequence is that a hybrid model that combines human intellect and AI efficiency should be used in customer service initiatives. For AI-driven interactions to be better and for customers to feel truly understood and supported, more advancements in Natural Language Processing (NLP), emotional recognition, and contextual interpretation are essential.

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The study's bibliometric component offers information on new fields and research trends. The rise in publications about AI and marketing after 2018 is indicative of the subject's increasing scholarly and applied significance. Understudied topics, including ethical AI, affective AI, generative AI, and AI explainability, are also identified by the bibliographic analysis. The implications for academic institutions are twofold: first, they should prioritise financing and support for research in these high-impact areas; second, they should connect curriculum development with these developing themes to prepare students for future employment markets. A methodological change towards more thorough and open literature reviews is further evidenced by the usage of systematic review tools like the PRISMA model and visual mapping with VOSviewer. In academic work, these methods assist researchers in discovering gaps, synthesising findings, and avoiding repetition. According to the survey, generative AI is a new trend that will have a big impact on marketing communications. Al's ability to generate advertising material, social media posts, product descriptions, and even customer emails on its own is revolutionising the volume and pace of content distribution. While this automation reduces creative costs and increases marketing agility, it also raises concerns about authenticity, originality, and consumer perception. Brands must maintain editorial control, ensure brand coherence, and, where necessary, reveal content generated by artificial intelligence in order to overcome these challenges. It is suggested that while generative AI facilitates the creation of content, it also necessitates new laws governing intellectual property, ethical storytelling, and content verification in marketing ecosystems.

Affective computing, commonly referred to as emotional AI, is another emerging topic of study with important implications. Emotional AI analyses voice tones, facial expressions, and physiological data to deliver real-time insight into client moods and responses. When developing responsive advertisements, adaptive interfaces, and emotionally intelligent customer service bots, this can be highly beneficial. However, exploiting emotional data comes with ethical and psychological risks, like emotional manipulation and unwanted surveillance. Companies must implement strict permission processes, provide transparency in data usage, and provide opt-out options. Furthermore, research must look at the psychological implications of emotional monitoring to avoid long-term harm to consumers' well-being. It is suggested that while emotional AI holds great potential, its usage must be governed by strong ethical guidelines to guard against misuse and promote trust.

The opacity of AI decision-making, also known as the "black-box" dilemma, is another problem with significant implications. Many AI systems, especially those that employ deep learning, have poor interpretability, which makes it difficult for users and even engineers to understand how conclusions are reached. This lack of transparency undermines consumer trust and makes it more challenging to keep decision-making processes accountable. For example, stakeholders must be able to defend their choices when AI offers a product, denies a credit application, or targets a certain client category. To overcome this, organisations need to prioritise Explainable AI (XAI) frameworks that provide clarity without compromising efficiency. Therefore, in addition to satisfying legal requirements, interpretable, transparent AI systems will increase consumer trust and brand reliability. The study also has important policy implications. As AI becomes increasingly prevalent in consumer markets, new legal frameworks covering privacy as well as accountability, reparations, transparency, and algorithmic fairness are needed. To create laws that safeguard the public interest while encouraging innovation, governments must work with industry and academia. It is creating AI ethical boards, formulating rules for algorithmic openness, and putting consumer education programs into action. Furthermore, legislators must ensure that the benefits of AI are distributed equitably across society and that targeted AI marketing initiatives do not exploit marginalised populations. The research paper is hence a helpful tool for evidence-based policymaking in the digital age.

#### CONCLUSION

The connection of artificial intelligence, consumer behaviour, and customer retention is the most rapidly evolving and strategically significant area. The study's bibliographic research, scholarly interest in this area have greatly increased and diversified, particularly after 2018. This rise is a reflection of academics' and industry practitioners' growing recognition of AI's transformative potential in understanding and influencing consumer decisions (Xu, H., & Teo, H. H., 2022).

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Thanks to technologies like behavioural nudges, predictive analytics, personalised recommendation systems, and emotionally sensitive artificial intelligence, organisations are today better equipped than ever to create meaningful, targeted, and lasting consumer engagements. These capabilities have reimagined traditional methods of customer relationship management (CRM), enabling organisations to move from reactive service models to proactive, anticipatory strategies that boost customer satisfaction and loyalty. However, there are also disadvantages to this technological advancement. This paper claims that in the responsible use of AI, ethical targeting, data privacy, algorithmic transparency, and customer trust are emerging as critical issues. Consumer resistance to AI-based customisation, which they perceive as intrusive or misleading, makes its adoption even more difficult. The report also highlights a number of promising future directions, like integrating ethical frameworks into AI design, finding a balance between data protection and customisation, and responsibly utilising generative and emotional AI in marketing communication. Numerous chances exist for further academic study and creative applications in these domains. In summary, while AI offers powerful tools to enhance customer experience and retention, its long-term sustainability hinges on addressing ethical concerns, upholding transparency, and aligning AI applications with consumer expectations and social norms (Draws, T., Szlávik, Z., Timmermans, B., Tintarev, N., Varshney, K. R., & Hind, M., 2021).

The study contributes to a growing body of knowledge by offering a systematic examination of current trends, challenges, and possibilities as well as by laying the groundwork for future research that is both ethically and technologically sound.

#### REFERENCES

- ➤ Chen, Y., Prentice, C., Weaven, S., & Hisao, A. (2022). The influence of customer trust and artificial intelligence on customer engagement and loyalty: The case of the home-sharing industry. *Frontiers in Psychology*, 13, 912339. https://doi.org/10.3389/fpsyg.2022.912339
- Choung, H., David, P., & Ross, A. (2022). Trust in AI and its role in the acceptance of AI technologies. arXiv preprint. https://arxiv.org/abs/2203.12687
- ➤ DeZao, T. (2024). Enhancing transparency in AI-powered customer engagement. arXiv preprint https://arxiv.org/abs/2410.01809
- ▶ Draws, T., Szlávik, Z., Timmermans, B., Tintarev, N., Varshney, K. R., & Hind, M. (2021). Disparate impact diminishes consumer trust even for advantaged users. arXiv preprint. https://arxiv.org/abs/2101.12715
- Feng, Y. (2023). Enhancing e-commerce recommendation systems through the approach of buyer's self-construal. Frontiers in Artificial Intelligence, 6, Article 1167735. https://doi.org/10.3389/frai.2023.1167735
- ➤ Huang, M. H., & Rust, R. T. (2021). Artificial intelligence in service interactions: A conceptual framework. *Journal of Service Research*, 24(1), 3–21. https://doi.org/10.1177/1094670520902266
- Jahan, I., & Sanam, T. F. (2024). A comprehensive framework for customer retention in e-commerce using machine learning. Electronic Commerce Research. https://doi.org/10.1007/s10660-024-09936-0
- Li, J., Wu, L., Qi, J., Zhang, Y., Wu, Z., & Hu, S. (2023). Determinants affecting consumer trust in communication with AI chatbots. *Journal of Organizational and End User Computing*, 35(1), 1–24. https://doi.org/10.4018/JOEUC.328089
- Nagy, S., & Hajdu, N. (2022). Consumer acceptance of the use of artificial intelligence in online shopping: Evidence from Hungary. ατΧίν preprint. https://arxiv.org/abs/2301.01277
- Rawat, K., Deep, S., Sachan, A., & Rai, A. (2024). Exploring the influence of AI-chatbots on consumer trust and loyalty in a cross-cultural environment. EasyChair Preprint. https://easychair.org/publications/preprint/f6rt
- Reyes, M. (2024). Artificial intelligence and recommender systems in e-commerce: Trends and challenges. *Journal of Retailing and Consumer Services*, 74, 103123. https://doi.org/10.1016/j.jretconser.2024.103123
- Verbeke, W., Martens, D., & Baesens, B. (2019). Social network analysis for customer retention using a machine learning approach. Decision Support Systems, 120, 14–26. https://doi.org/10.1016/j.dss.2019.02.007
- Xu, H., & Teo, H. H. (2022). The impact of artificial intelligence on consumer trust in e-commerce. *Electronic Commerce Research*, 22(3), 415–438. https://doi.org/10.1007/s10660-021-09470-8
- > Zhang, Y., Chen, L., & Hu, J. (2020). AI-based recommendation systems for e-commerce: A review and research agenda. Information Systems Frontiers, 22(6), 1375–1391. https://doi.org/10.1007/s10796-019-09920-1
- Bock, D., & Kim, Y. G. (2023). Artificial intelligence-based emotional personalization in digital advertising: Impacts on consumer responses. *Journal of Business Research*, 156, 113562. https://doi.org/10.1016/j.jbusres.2022.113562
- Araujo, T., Helberger, N., Kruikemeier, S., & de Vreese, C. (2020). In AI we trust? Perceptions about automated decision-making by artificial intelligence. AI & Society, 35(3), 611-623. https://doi.org/10.1007/s00146-019-00817-3
- Davenport, T. H., Guha, A., Grewal, D., & Bressgott, T. (2020). How artificial intelligence will change the future of marketing. *Journal of the Academy of Marketing Science*, 48(1), 24–42. https://doi.org/10.1007/s11747-019-00696-0
- ➤ Paschen, J., Pitt, L., & Kietzmann, J. (2020). Artificial intelligence and natural language processing for business communication: Findings from a systematic literature review. *Journal of Business Research*, 120, 365–378. https://doi.org/10.1016/j.jbusres.2020.01.009

ISSN: 2229-7359 Vol. 11 No. 18s, 2025

https://theaspd.com/index.php

Wirtz, J., Zeithaml, V. A., Gistri, G., & So, K. K. F. (2023). Technology-mediated service encounters: A research agenda. Journal of Service Management, 34(3), 293–316. https://doi.org/10.1108/JOSM-12-2022-0451

- ➤ Hollebeek, L. D., & Macky, K. (2019). Digital content marketing's role in fostering consumer engagement, trust, and value: Framework, fundamental propositions, and implications. *Journal of Interactive Marketing*, 45, 27-41. https://doi.org/10.1016/j.intmar.2018.07.003
- ➤ Hosanagar, K., & Jair, V. (2018). We need transparency in algorithms, but too much can backfire. *Harvard Business Review*. https://hbr.org/2018/07/we-need-transparency-in-algorithms-but-too-much-can-backfire
- Ivanov, D., & Webster, C. (2021). Ethical perspectives on AI in customer management and service delivery. Technological Forecasting and Social Change, 165, 120552. https://doi.org/10.1016/j.techfore.2020.120552
- Luo, X., Tong, S., Fang, Z., & Qu, Z. (2019). Frontiers: Machines vs. humans: The impact of artificial intelligence chatbot disclosure on customer purchases. *Marketing Science*, 38(6), 937–947. https://doi.org/10.1287/mksc.2019.1192