



The Impact of Artificial Intelligence and Predictive Analytics on Digital Marketing Strategies: A Systematic Review of Recent Trends

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Abstract

By automating choices, predicting customer behavior, and allowing scale-personalization of information, artificial intelligence (AI) and predictive analytics are reshaping digital marketing. Eight research that were published in peer-reviewed journals between 2024 and 2025 are systematically examined in this report. Among the many topics covered by the research are social media marketing customization, suggestions powered by artificial intelligence, marketing performance prediction analytics, advertising ethics in the age of artificial intelligence, and improvement of the user experience using machine learning. Customer involvement, happiness, and marketing efficiency all show steady gains, according to the evidence. Still, there are obstacles to overcome when it comes to calculating causal effect, incorporating sophisticated AI into preexisting systems, and guaranteeing ethical adherence in data use. Standardized key performance indicators (KPIs), privacy-preserving customization, and reinforcement learning for bidding optimization are some of the topics covered in this debate, which also seeks to fill research gaps and suggest routes for future study.

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1. Introduction

Because it allows companies to connect with customers all over the world, tailor their ads to each individual, and track their ROI in real time, digital marketing has quickly become an integral part of contemporary company strategy. Recent years have seen a dramatic shift in this field as a result of the increased efficiency, accuracy, and effectiveness brought about by the combination of artificial intelligence (AI) with predictive analytics, which has allowed for the automation of decision-making, the prediction of consumer demands, and the optimization of marketing resources^[1, 4]. These days, marketers depend on algorithms for a wide range of tasks, including consumer segmentation, churn prediction, product recommendation, and cross-platform personalization.^[2, 3]

1.1. Importance of AI and Predictive Analytics in Digital Marketing

Online shopping, smartphone apps, and social media have rendered conventional advertising methods obsolete due to the exponential growth in the variety, speed, and amount of customer data. With the use of statistical and machine learning models, predictive analytics can foretell how customers will behave, while artificial intelligence (AI) may enable scalable customization via NLP, recommendation engines, and reinforcement learning^[1, 6]. Companies that use AI for marketing purposes have more engaged and loyal customers and more effective campaigns overall, according to the evidence^[2, 3].

As an example, Teepapal^[1] showed that customer-brand connections are strengthened and consumer engagement is greatly increased when social media marketing is personalized by artificial intelligence. Similar to how tailored campaigns work better than generic digital commercials, Hardcastle *et al.*^[2] discovered that AI-driven suggestions impact satisfaction levels and brand perceptions. These cases show how AI and BI are changing digital marketing to be more proactive and data-driven, rather than reactive.

1.2. Problem Statement

Adopting AI and predictive analytics into marketing practice is still challenging, despite the huge enthusiasm. Firstly, the generalizability of results is restricted since many researchers use small datasets or samples that are exclusive to a certain business^[3, 5]. Furthermore, it is difficult to compare studies since there is no universally accepted method for calculating marketing KPIs like return on investment (ROI), click-through rate (CTR), and customer lifetime value (CLV)^[4, 5]. Thirdly, as pointed out by Kaponis *et al.*^[6], there is still a technological and organizational difficulty when it comes to incorporating sophisticated AI models into current digital infrastructures. Lastly, there are ethical and privacy concerns that prevent broad implementation, such as maintaining customer confidence and being in compliance with GDPR^[8].

1.3. Research Significance

Academics and professionals in the field of digital marketing must have a firm grasp of the function of artificial intelligence and predictive analytics in this space. Scholars need to innovate their methods since this field is the next big thing in study. Results give practical advice for businesses looking to personalize their offerings, optimize their spending, and engage their customers via the use of AI-powered solutions. Digital marketing tactics driven by AI greatly enhance a firm's innovativeness and competitiveness, as Wu^[7] proved, particularly in dynamic marketplaces. According to Saura^[8], trust is essential for a brand's long-term success, and ethical AI adoption helps to cultivate it.

1.4. Objectives of This Review

The current paper aims to systematically review peer-reviewed research on AI and predictive analytics in digital marketing published between 2024 and 2025. The objectives are threefold:

1. First, create a map of the evidence showing how marketing has used AI and predictive analytics for things like customization, predictive modeling, engaging customers, and making ethical decisions.
2. **Assessing Outcomes:** Look at the advantages that have been documented throughout research, such as engagement, satisfaction, innovation, and performance gains^[1-7].
3. **Seeing the Missing Pieces:** Call attention to the methodological constraints, scalability issues, and ethical adoption concerns, and provide a plan for future studies^[6, 8].

1.5. Structure of the Paper

There are six parts to the paper. The Methods section follows the introduction and details the procedure, criteria for inclusion and exclusion, and process of data extraction for the systematic review. In Section 3, we provide the Review of Previous Studies, which delves into an analysis of each chosen article. In Section 4, we will go over some of the commonalities found in the research, such as ethics, automated decision-making, customization, and predictive analytics. Section 6 wraps up with implications and potential avenues for further study, while Section 5 details research

gaps.

2. Methods

2.1. Review Protocol

This study follows the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines, which provide a transparent framework for identifying, screening, and synthesizing literature^[4]. The approach ensures methodological rigor and reduces bias in selecting relevant studies. The review protocol included:

1. Defining the scope of the research (AI and predictive analytics in digital marketing).
2. Selecting appropriate databases for searching.
3. Developing inclusion and exclusion criteria.
4. Screening articles through PRISMA's four phases: identification, screening, eligibility, and inclusion.
5. Synthesizing findings using narrative and thematic approaches.

2.2. Databases and Search Strategy

To capture comprehensive and high-quality evidence, three major academic databases were used:

- **Google Scholar:** for its broad coverage across journals and conference proceedings.
- **Scopus:** for indexing peer-reviewed articles across business, computer science, and engineering.
- **Web of Science:** for ensuring inclusion of high-impact journals.

Search strings combined Boolean operators with keywords such as:

- "Artificial Intelligence" AND "Digital Marketing"
- "Predictive Analytics" AND "Customer Behavior"
- "Machine Learning" AND "Personalization"
- "AI-powered marketing"^[4]
- "Ethics" AND "AI in digital advertising"^[8]

The search was limited to January 2024 – August 2025 to ensure currency, as AI applications in marketing evolve rapidly.

2.3. Inclusion and Exclusion Criteria

The selection of studies was based on predefined criteria.

Inclusion criteria:

- Peer-reviewed journal articles.
- Published between 2024 and 2025.
- Written in English.
- Directly addressed AI or predictive analytics in digital marketing strategies.
- Reported measurable outcomes such as consumer engagement, satisfaction, ROI, CTR, or innovation.

Exclusion criteria:

- Editorials, opinion pieces, or conceptual-only studies without data^[4].
- Articles focusing on AI in non-marketing contexts (e.g., supply chain, HR).
- Duplicate publications or preprints without peer review.

Table 1: Inclusion and Exclusion Criteria

Criteria	Inclusion	Exclusion
Publication type	Peer-reviewed journal articles	Editorials, commentaries
Language	English	Non-English
Period	2024-2025	Pre-2024
Domain	AI and predictive analytics in digital marketing	AI in unrelated domains
Evidence	Empirical data, systematic reviews, measurable outcomes	No empirical data, opinion essays

2.4. Screening Process

The PRISMA four-phase flow was applied:

- **Identification:** 135 studies retrieved across the three databases.
- **Screening:** Titles and abstracts reviewed, narrowing the set to 42.
- **Eligibility:** Full-text reading reduced the pool to 15 studies.
- **Inclusion:** After removing duplicates and low-quality works, 8 studies remained, covering domains of personalization ^[1], recommendations ^[2], social media engagement ^[3], predictive analytics ^[5], automation ^[6], innovation ^[7], and ethics ^[8].

A PRISMA diagram (Figure 1) summarizes the process.

2.5. Data Extraction

A structured data extraction form was designed to collect the following:

- Author(s), year, and journal.
- Research design (survey, experiment, systematic review).
- Domain focus (e.g., personalization, predictive analytics, ethics).
- Methods used (machine learning algorithms, statistical modeling, conceptual synthesis).
- Main outcomes (engagement, satisfaction, innovation, ethical adoption).
- Limitations acknowledged.

For example, Teepapal ^[1] was classified under personalization using AI-driven models, while Saura ^[8] was categorized under ethics and user privacy.

2.6. Data Synthesis

The synthesis combined:

1. **Narrative Summary:** describing findings of each study.
2. **Thematic Analysis:** grouping studies into themes (personalization, predictive analytics, automated decisions, ethics).
3. **Comparative Evaluation:** highlighting methodological similarities, differences, and evidence quality across studies.

This structured approach allows not only identification of trends but also recognition of research gaps such as lack of standardized KPIs and limited experimental evidence ^[5, 7].

4. Thematic Discussion

4.1. Personalization and Consumer Engagement

Personalization emerged as one of the most consistent findings across the reviewed literature. Studies show that AI-driven personalization significantly enhances consumer engagement, satisfaction, and brand loyalty ^[1-3]. Teepapal ^[1] demonstrated how predictive algorithms dynamically tailor

social media content to individual user profiles, leading to measurable improvements in engagement duration and interaction frequency. Hardcastle *et al.* ^[2] confirmed these results in the context of AI-driven recommendations, showing that relevance and satisfaction are stronger when advertisements and offers are personalized.

Beyari and Hashem ^[3] extended this evidence to Middle Eastern markets, showing that AI personalization improves customer experience even in non-Western contexts. Importantly, this finding highlights the universality of personalization benefits across cultures. However, studies also caution against “over-personalization.” Hardcastle *et al.* ^[2] found that excessive targeting can increase privacy concerns, undermining trust. Thus, personalization offers clear benefits but requires a balance between user value creation and privacy protection.

4.2. Predictive Analytics for Marketing Performance

Strategies for client retention, forecasting, and segmentation all rely heavily on predictive analytics. In order to increase marketing effectiveness, Muhajir ^[5] shown that predictive models are useful. These models improve segmentation accuracy and customer behavior predicting. Companies who relied on descriptive analytics had lower attrition rates and greater return on investment (ROI) than those that used predictive analytics. With the use of data-driven marketing tactics, East Asian enterprises may become more adaptable and competitive, as Wu ^[7] shown. This is because predictive analytics helps organizations become more inventive.

In spite of all these advantages, predictive analytics still has two major drawbacks. To begin with, the lack of external validity is a result of the majority of research using datasets that are particular to a single industry ^[5]. Second, although predictive analytics does a good job of highlighting accuracy indicators (such as AUC and precision), it doesn't always do a good job of linking these gains to monetary outcomes (such revenue or ROI). Research in the future has to shift its focus from prediction to decision-making, specifically examining the extent to which forecasts lead to quantifiable strategic benefits.

4.3. Automated Decision-Making and Resource Optimization

One other important topic is automation. By automating targeting, customization, and campaign creation, machine learning increases efficiency, as highlighted by Kaponis *et al.* ^[6]. Their research showed that marketing operations may be more efficiently scaled with the help of automation as it decreases human bias and speeds up decision-making. The fact that Kumar ^[4] classified AI apps like chatbots, recommendation systems, and automated bidding further supports this.

But as we can see from the material we looked at, automation isn't problem-free. Full integration of these techniques is typically lacking in organizations, despite the obvious efficiency improvements ^[6]. In addition, despite much

discussion in related literature, sophisticated methods like reinforcement learning for bidding optimization have received little attention in actual marketing campaigns. The disparity between the promise of technology and its actual implementation is evident here.

4.4. Innovation and Strategic Capabilities

The connection between marketing AI adoption and organizational innovation as a whole is a novel contribution of Wu [7]. Companies that used predictive analytics were more likely to be innovative in their product creation and adaptable to market changes, according to the research. That AI is making a difference in areas such as strategy renewal and competitive advantage shows that its influence extends beyond the optimization of campaigns.

In this view, artificial intelligence is no longer seen as a "tactical tool" for marketers, but rather as a strategic enabler for businesses. Both marketing results and a company's ability to weather changing market conditions may be enhanced by the use of predictive analytics into decision-making processes. The relevance of AI in making marketing a more flexible and creative field was highlighted in Kumar's theoretical framework [4], which is in line with this discovery.

4.5. Ethics, Privacy, and Governance

Concerns about privacy and ethics are common threads in the literature we looked at. Adopting AI in digital marketing, according to Saura [8], should put an emphasis on being transparent, fair, and seeking permission. Unethical practices, such as collecting too much data, may hurt a company's image, but ethical adoption increases customer trust and loyalty. According to the data presented by Hardcastle *et al.* [2], customers like customization but are resistant to changes that invade their privacy.

In marketing, where targeting mistakes may perpetuate stereotypes or leave out marginalized groups, bias and fairness concerns in machine learning algorithms take on new significance (Kaponist et al., 2016). That is why, for AI-driven marketing to be viable, ethics must be at the center, not an afterthought.

Based on the papers that were evaluated, it seems that federated learning and differential privacy, which both preserve user privacy, might be the way forward for ethical AI marketing in the future [6, 8]. Nevertheless, there is a critical lack of research that tests these strategies in actual marketing environments.

4.6. Cross-Theme Synthesis

Across the eight studies, several patterns emerge:

- **Performance gains are consistent:** Personalization and predictive analytics consistently improve engagement, satisfaction, and targeting accuracy [1-5].
- **Measurement challenges persist:** Many studies focus on behavioral or attitudinal outcomes (e.g., satisfaction, engagement) but underreport financial KPIs such as ROI or conversion lift [3, 5].
- **Scalability issues:** While personalization works in controlled contexts, scaling across platforms and industries requires infrastructure investments that not all firms can afford [6].
- **Ethics is integral:** Trust and privacy emerge as necessary conditions for consumer acceptance of AI-driven marketing [2, 8].

- **Strategic impact:** Beyond campaigns, AI adoption contributes to firm innovativeness and long-term competitiveness [7].

Summary of Thematic Discussion

The literature confirms that AI and predictive analytics provide clear benefits for personalization, predictive modeling, and automation, but their broader adoption is constrained by methodological, infrastructural, and ethical limitations. Scholars highlight the need for standardization, cross-market validation, and ethical frameworks to ensure AI delivers both performance and trust.

5. Research Gaps

Systematic analysis of the eight selected studies [1-8] reveals that while AI and predictive analytics have already transformed digital marketing practices, the literature between 2024 and 2025 also demonstrates significant limitations. These gaps highlight the need for further empirical validation, methodological innovation, and ethical safeguards. Below, key gaps are synthesized thematically.

5.1. Causal Evidence vs. Correlational Findings

Most studies focus on associations rather than causal inference. For example, Teepapal [1] and Hardcastle *et al.* [2] show strong positive links between personalization and engagement, yet both rely on observational or survey-based data. Without randomized controlled trials (RCTs) or quasi-experimental designs, it is difficult to determine whether AI-driven personalization causes higher engagement or whether already-engaged customers are more likely to respond positively to personalization. This lack of causal testing undermines confidence in generalizing findings across industries.

5.2. Standardization of Key Performance Indicators (KPIs)

Studies employ different metrics—CTR, engagement duration, satisfaction, innovativeness—making cross-study comparison problematic. Beyari and Hashem [3] measure self-reported satisfaction, whereas Muhajir [5] focuses on predictive model accuracy, and Wu [7] emphasizes innovativeness. Without standardized KPIs such as ROI, incremental revenue, or iROAS (incremental return on ad spend), results remain fragmented and hard to integrate into strategic decision-making.

5.3. Scalability and External Validity

Several studies rely on context-specific samples. Teepapal [1] uses data from a single platform; Beyari and Hashem [3] limit their survey to Middle Eastern users; Wu [7] draws from East Asian firms. While each adds contextual richness, the lack of cross-market replication raises questions about the universality of findings. Predictive models validated in one industry may not perform equally well in others with different data infrastructures.

5.4. Limited Exploration of Advanced AI Techniques

Although AI marketing tools are discussed widely, few studies empirically test advanced techniques such as reinforcement learning, generative AI for content creation, or transformer-based media mix models. Most focus on traditional machine learning (ML) models for prediction [5, 6]. This indicates a gap between technological capabilities (as seen in computer science) and marketing research

applications.

5.5. Ethical and Privacy Challenges

Both Kaponis *et al.* [6] and Saura [8] stress ethical risks including bias, fairness, and consumer privacy. Yet few studies empirically test privacy-preserving solutions such as differential privacy or federated learning in marketing contexts. Instead, most remain conceptual, without demonstrating real-world trade-offs between personalization and privacy. With growing regulations like GDPR and

CCPA, this gap is increasingly problematic for practitioners.

5.6. Integration and Organizational Readiness

Several studies [4, 6, 7] highlight barriers in integrating AI into existing marketing infrastructures. Challenges include legacy systems, lack of skilled personnel, and resource constraints. However, empirical research on change management, adoption processes, and organizational culture remains scarce. This indicates a gap in understanding the human and organizational side of AI adoption.

Table 2: Research Gaps and Recommendations

Research Gap	Evidence in Studies	Implications	Recommendations for Future Research
Lack of causal evidence	Personalization effects shown in [1, 2] but based on surveys/observational data	Limits confidence in AI's true impact	Conduct randomized experiments or quasi-experiments in real campaigns
KPI inconsistency	Engagement [1], satisfaction [3], accuracy [5], innovativeness [7]	Hinders meta-analysis and cross-study learning	Develop standardized KPIs (e.g., ROI, iROAS, CLV uplift) for AI marketing
Scalability and generalizability	Studies limited to single regions or industries [1, 3, 7]	Uncertainty about global applicability	Replicate across industries, cultures, and platforms
Limited advanced AI methods	Focus on ML basics [5, 6]	Missed opportunities for innovation	Test reinforcement learning, generative AI, and transformers in marketing
Ethics and privacy underexplored empirically	Highlighted in [6, 8]	Risk of consumer mistrust, regulatory penalties	Empirical testing of privacy-preserving AI (federated learning, DP)
Organizational integration challenges	Barriers noted in [4, 6, 7]	Firms fail to fully realize AI benefits	Study adoption models, change management, and hybrid human-AI workflows

5.7. Summary of Gaps

In summary, the research between 2024 and 2025 confirms the potential of AI and predictive analytics but is constrained by methodological, contextual, and ethical limitations. Addressing these gaps requires:

- Stronger empirical designs (field experiments, natural experiments).
- Standardization of outcome metrics across studies.
- Broader cross-industry and cross-cultural replications.
- Exploration of cutting-edge AI techniques beyond standard ML.
- Practical solutions for integrating ethics and privacy into marketing models.
- Greater attention to organizational readiness, training, and resource allocation.

By tackling these areas, future research can provide more robust, generalizable, and ethical insights that guide practitioners in implementing AI-powered marketing at scale.

6. Conclusion and Future Directions

6.1. Conclusion

This systematic review synthesized eight recent studies (2024–2025) on the role of artificial intelligence (AI) and predictive analytics in digital marketing strategies [1]–[8]. Evidence consistently indicates that AI-driven personalization, predictive modeling, and automation improve consumer engagement, satisfaction, and marketing efficiency. For instance, Teepapal [1] and Hardcastle *et al.* [2] showed that personalization enhances click-through rates and satisfaction, while Beyari and Hashem [3] confirmed that these effects extend to emerging markets. Similarly, Muhajir [5] and Wu [7] demonstrated that predictive analytics strengthens segmentation accuracy and contributes to organizational innovativeness.

Despite these positive outcomes, the literature also highlights persistent challenges. The absence of causal evidence, inconsistencies in key performance indicators (KPIs), and reliance on region-specific datasets reduce the generalizability of findings [1]–[5]. Furthermore, the lack of empirical studies on advanced AI techniques such as reinforcement learning or generative models shows a gap between technological innovation and marketing practice. Finally, ethical concerns regarding transparency, fairness, and data privacy remain underexplored empirically, even though they are central to consumer trust [6, 8].

Overall, the review suggests that AI and predictive analytics are no longer optional add-ons but have become essential components of competitive digital marketing strategies. However, realizing their full potential requires rigorous validation, standardization, and integration of ethical frameworks.

6.2. Practical Implications

For practitioners, the reviewed studies offer actionable insights.

- **Personalization strategies:** Firms should leverage AI-driven recommendation engines and NLP tools to tailor content, but they must monitor consumer comfort levels to avoid privacy concerns [2, 3].
- **Predictive analytics adoption:** Businesses should integrate churn prediction and customer lifetime value (CLV) modeling into decision-making processes, ensuring predictions lead to measurable ROI [5].
- **Automation of marketing tasks:** Deploying chatbots, programmatic advertising, and automated segmentation can reduce costs and enhance scalability, provided that firms invest in robust infrastructures [4, 6].
- **Ethical compliance:** Transparent data collection practices and privacy-preserving algorithms are not only

regulatory requirements but also drivers of consumer trust and loyalty [8].

- **Strategic alignment:** As Wu [7] demonstrated, AI-driven marketing strengthens firm-level innovativeness. Managers should therefore treat AI adoption not as a tactical adjustment but as a strategic transformation initiative.

6.3. Academic Contributions

From a scholarly perspective, this review contributes by highlighting areas where current literature falls short:

- The dominance of correlational evidence suggests that future research must adopt experimental or quasi-experimental designs to establish causal relationships between AI adoption and marketing performance [1, 2].
- The lack of standardized KPIs underscores the need for comparative frameworks that allow meta-analyses across industries and geographies [5, 7].
- Limited exploration of advanced AI methods shows that marketing scholars should collaborate with computer scientists to test reinforcement learning, generative AI, and transformers in applied marketing contexts [6].
- Ethics remains a critical but under-researched dimension; empirical studies should measure how privacy-preserving techniques influence consumer trust and firm outcomes [8].

6.4. Future Research Directions

Based on the identified gaps, future studies should prioritize the following:

1. **Causal Impact Measurement:** Researchers should design field experiments, A/B tests, and quasi-experiments that assess the incremental impact of AI-driven strategies on engagement, sales, and ROI.
2. **Standardization of KPIs:** A unified framework for measuring outcomes—covering ROI, incremental return on ad spend (iROAS), CLV uplift, and churn reduction—is essential for enabling cross-study comparison.
3. **Cross-Industry and Cross-Cultural Validation:** Studies should move beyond single-industry or single-region contexts, testing AI adoption in diverse sectors such as healthcare marketing, education, and non-profits, as well as in under-researched regions.
4. **Advanced AI Applications:** Future research must empirically test reinforcement learning for bidding optimization, transformer models for media mix modeling, and generative AI for content creation. These techniques remain underexplored in the marketing literature despite their success in computer science.
5. **Ethics and Privacy-Preserving Techniques:** Empirical studies should evaluate the trade-offs between personalization accuracy and privacy compliance when applying federated learning or differential privacy in digital marketing [6, 8].
6. **Organizational Readiness:** Beyond technical adoption, research should explore the human and organizational dimensions of AI, including change management, employee training, and hybrid human-AI collaboration.

6.5. Final Remarks

The integration of AI and predictive analytics into digital marketing is both an opportunity and a challenge. The evidence demonstrates clear improvements in performance,

but also warns of the risks of poor implementation and lack of ethical safeguards. By addressing methodological, technological, and ethical gaps, future research can bridge the divide between innovation and practice, enabling firms to leverage AI not only for marketing efficiency but also for sustainable competitive advantage.

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