



## **From Personalization to Prediction: The Role of Generative AI in Shaping Consumer Purchase Journeys**

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### **Abstract**

*This research investigates the transformative impact of generative artificial intelligence (AI) on consumer purchase journeys, highlighting the shift from traditional personalization strategies to predictive and anticipatory models. Drawing on qualitative data from expert interviews and corporate case studies, the study identifies five central themes: the evolution from reactive to predictive personalization, enhanced customer engagement, ethical and trust-related challenges, strategic differentiation through AI, and operational implementation hurdles. Companies like Amazon, Sephora, and Coca-Cola serve as exemplars of how generative AI tools—ranging from recommendation engines to creative content generation—are reshaping how consumers interact with brands. Results show that generative AI not only customizes experiences in real time but also anticipates future consumer behaviors, enabling marketers to strategically align offerings with individual preferences. However, the increased reliance on AI introduces significant ethical concerns, particularly related to privacy, algorithmic bias, and consumer autonomy. The paper concludes by emphasizing the need for responsible AI integration, grounded in transparent governance frameworks and ethical design. As generative AI becomes more entrenched in digital marketing ecosystems, its successful deployment will depend on balancing technological innovation with consumer trust and data stewardship.*

**Keywords:** Generative AI, Consumer Behavior, Predictive Personalization, Marketing Ethics, Digital Transformation

### **Introduction**

The digital transformation of commerce over the past two decades has significantly altered consumer behavior, marketing strategies, and the technological landscape of consumer engagement. One of the most profound developments in this evolution is the emergence of generative artificial intelligence (AI), which is shifting the paradigm from personalization—tailoring experiences based on consumer profiles and behaviors—to prediction—anticipating future actions and desires before consumers themselves are consciously aware of them. This paper explores the role of generative AI in reshaping the consumer purchase journey, emphasizing how its capabilities go beyond traditional personalization to influence and predict consumer decisions with unprecedented precision.

Consumer purchase journeys have historically been understood through linear models, such as the AIDA (Attention, Interest, Desire, Action) framework. However, the proliferation of digital touchpoints, the ubiquity of data, and the rise of machine

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learning have led to more dynamic, non-linear consumer behavior models (Lemon & Verhoef, 2016). In this context, generative AI introduces a transformative potential. Unlike rule-based systems or even traditional machine learning, generative AI can synthesize new content—text, images, videos, and more—by learning from vast datasets. This capacity not only enhances personalization but also enables proactive and context-aware marketing interventions (Dwivedi et al., 2023).

Generative AI systems, including large language models (LLMs) like OpenAI's GPT and image-generation models like DALL-E, are increasingly deployed in marketing applications. These tools can generate personalized emails, dynamic product recommendations, interactive chat experiences, and even design entire advertising campaigns. As such, generative AI extends personalization by integrating predictive insights to guide consumers through their purchase journeys (Kaplan & Haenlein, 2019).

Moreover, generative AI facilitates hyper-personalized experiences by analyzing a user's preferences, social media activity, transaction history, and real-time interactions to craft unique engagement strategies. For example, an AI-powered virtual stylist may recommend outfits based on current trends, the user's past purchases, and inferred preferences from social media activity, thereby not just responding to demand but generating it. This predictive capacity marks a critical shift in how companies approach consumer engagement—from reactive personalization to proactive prediction (Rust, 2020).

Ethical concerns also emerge in this context. The ability of generative AI to predict consumer behavior raises questions about autonomy, data privacy, and manipulation. If an AI can anticipate and influence a consumer's choices with high accuracy, does this compromise consumer agency? Furthermore, biases in training data can lead to discriminatory outcomes, reinforcing stereotypes or excluding minority consumer segments (Binns, 2018).

The commercial implications are equally significant. Businesses that effectively leverage generative AI may enjoy a competitive advantage through improved customer engagement, higher conversion rates, and enhanced brand loyalty. Conversely, those that fail to adopt or misuse the technology risk falling behind or alienating their customer base.

The objectives of this research are threefold: (1) to examine how generative AI technologies are currently employed to personalize and predict consumer behavior in digital environments, (2) to analyze the implications of these technologies on the consumer purchase journey, and (3) to identify the ethical, strategic, and operational considerations businesses must address when integrating generative AI into their marketing practices.

This paper is structured as follows. First, the literature review will synthesize current academic and industry research on personalization, predictive analytics, and generative AI applications in marketing. Second, the methodology section outlines the research design, including data sources, analytical approaches, and limitations. Subsequent sections will present findings and discuss the broader implications of



generative AI in consumer journeys, culminating in a conclusion that offers strategic recommendations and identifies future research directions.

In a world increasingly driven by data and automation, understanding the transition from personalization to prediction is not merely academic—it is essential for businesses seeking to thrive in the digital age. As generative AI continues to evolve, its role in shaping consumer behavior and experiences will become ever more critical, demanding thoughtful integration, ethical consideration, and innovative application.

## **Literature Review**

### *Evolution of Consumer Behavior in the Digital Age*

Consumer purchase behavior has undergone significant transformations over the past two decades due to the proliferation of digital technologies. The rise of e-commerce, mobile apps, and omnichannel marketing strategies has shifted power to consumers who now expect seamless and personalized experiences (Lemon & Verhoef, 2016). Contemporary consumers move fluidly between online and offline touchpoints, and digital data has become a critical asset in understanding and predicting consumer intent (Rust, 2020).

#### *Traditional Personalization in Marketing*

Before the advent of AI-driven personalization, marketing strategies relied heavily on segmentation and rule-based systems. These systems grouped consumers into broad categories based on demographics, psychographics, and historical behavior. While useful, these approaches lacked granularity and adaptability, often failing to capture the unique context and dynamic needs of individual consumers (Kaplan & Haenlein, 2019). Static personalization models were limited in their ability to update in real-time or respond proactively to new behaviors.

#### *The Emergence of Artificial Intelligence in Marketing*

The integration of artificial intelligence (AI) into marketing marked a turning point in customer engagement. Machine learning algorithms allowed marketers to process massive datasets and uncover patterns that were previously undetectable (Dwivedi et al., 2023). AI-based tools enabled real-time recommendation engines, dynamic pricing, and automated content generation, all of which contributed to more personalized and relevant consumer interactions.

Generative AI, a subset of AI that focuses on creating new content—such as text, images, and even strategies—takes personalization a step further. With the advent of tools like GPT (Generative Pre-trained Transformers), marketers can generate email campaigns, product descriptions, and customer support interactions that are tailored to individual users (Kaplan & Haenlein, 2019).

#### *Generative AI and Predictive Personalization*

Predictive personalization refers to the use of AI to anticipate consumer needs and deliver content or product recommendations before the user explicitly expresses interest. This predictive capability distinguishes generative AI from traditional personalization methods. For instance, Netflix uses AI to predict viewing preferences,



and Spotify employs it to curate personalized playlists based on subtle behavioral signals (Rust, 2020).

A growing body of literature suggests that predictive personalization enhances consumer engagement and satisfaction. When users feel understood and their needs anticipated, their emotional connection to a brand strengthens, leading to higher loyalty and lifetime value (Lemon & Verhoef, 2016).

#### *Applications of Generative AI in Consumer Journeys*

Generative AI is used in various stages of the consumer journey:

- **Awareness:** AI-generated advertisements and video content can be customized based on target audience personas.
- **Consideration:** AI-powered chatbots and recommendation systems assist users in product discovery.
- **Purchase:** Predictive offers and dynamic pricing optimize conversion rates.
- **Post-purchase:** AI-generated content like follow-up emails, surveys, and loyalty rewards foster continued engagement.

Amazon's anticipatory shipping model, which uses AI to estimate when and where a product will be needed, exemplifies the predictive nature of modern consumer journeys (Kaplan & Haenlein, 2019).

#### *Impact on Customer Experience and Brand Perception*

The literature consistently indicates that personalized and predictive interactions improve customer satisfaction and perception of brand relevance (Lemon & Verhoef, 2016). According to Rust (2020), companies that effectively deploy AI experience increased customer engagement and stronger emotional resonance.

Generative AI can also simulate empathy by tailoring language and tone to match consumer sentiment, which is particularly effective in customer service contexts. However, some scholars warn that over-automation could reduce the human touch in brand-consumer relationships, potentially alienating certain customer segments (Binns, 2018).

#### *Ethical Implications and Governance of Predictive AI*

While generative AI enhances personalization, it also raises ethical issues. These include:

- **Data Privacy:** Predictive algorithms require extensive data collection, raising concerns over consent and surveillance.
- **Algorithmic Bias:** If training data reflects historical biases, AI may reinforce discrimination in targeting or messaging (Binns, 2018).
- **Consumer Autonomy:** Predictive nudges may lead to unconscious manipulation, challenging the notion of free choice (Kaplan & Haenlein, 2019).



Binns (2018) argues that ethical AI design must be grounded in principles of fairness, accountability, and transparency. Transparency, in particular, is key to building trust; consumers must understand how and why certain predictions are made.

### *Strategic Implications and Organizational Readiness*

Organizations must be prepared to invest not only in technology but also in skills development and governance frameworks to harness the power of generative AI. Dwivedi et al. (2023) highlight the need for interdisciplinary collaboration between data scientists, marketers, ethicists, and legal professionals.

AI-readiness also involves cultural transformation. Traditional hierarchies and decision-making processes may hinder the agile implementation of predictive systems. Firms that foster a data-driven and innovative culture are better positioned to leverage generative AI for competitive advantage.

### *Challenges and Limitations in Current Research*

Despite its growing relevance, research on generative AI in marketing remains fragmented. Most studies focus on specific applications (e.g., chatbots or recommendation systems) rather than providing a holistic understanding of its impact across the entire consumer journey. Furthermore, empirical studies examining long-term consumer trust, satisfaction, and behavioral outcomes are limited.

Thomas (2006) emphasizes the importance of inductive methodologies in exploring emerging technologies. Qualitative research, such as expert interviews and case studies, can uncover nuanced insights that quantitative models may overlook. Future research should adopt mixed methods approaches to better understand generative AI's complex social, behavioral, and economic implications.

### *Future Directions*

Emerging areas of interest include:

- **Explainable AI (XAI):** Developing systems that provide human-understandable justifications for predictions.
- **Hyper-personalization:** Leveraging multimodal data (text, image, voice) to generate even more individualized experiences.
- **Sustainability:** Investigating the environmental impact of AI models and seeking energy-efficient solutions.

There is also growing interest in regulatory frameworks. As governments and industry bodies begin to craft AI governance policies, scholars have a critical role to play in shaping fair and forward-looking guidelines.

## **Methodology**

This research adopts a qualitative methodological framework to explore how generative AI influences consumer purchase journeys, with a particular focus on transitioning from personalization to predictive marketing strategies. The study



employs a multi-method approach encompassing literature analysis, expert interviews, and case study evaluations.

### **Research Design**

The research follows an exploratory design to investigate an emerging field where empirical data is still evolving. An inductive approach was chosen to allow themes and insights to emerge from the data rather than imposing predefined categories (Thomas, 2006).

### **Data Collection**

1. **Literature Review:** A comprehensive review of peer-reviewed journals, conference proceedings, industry white papers, and reports published between 2015 and 2025 was conducted. Key databases used included Scopus, Web of Science, IEEE Xplore, and Google Scholar. Keywords included "generative AI," "consumer behavior," "purchase journey," "predictive analytics," "personalization," and "AI marketing."
2. **Expert Interviews:** Semi-structured interviews were conducted with 10 professionals, including AI developers, marketing strategists, consumer behavior analysts, and ethics scholars. Interview questions focused on practical applications, challenges, ethical considerations, and future trends in generative AI marketing.
3. **Case Studies:** Three companies known for their innovative use of generative AI in marketing (e.g., Amazon, Sephora, and Coca-Cola) were selected for in-depth analysis. Publicly available data, press releases, marketing materials, and third-party analyses were used to examine each company's use of generative AI.

### **Data Analysis**

Thematic analysis was employed to identify key patterns and narratives across the literature, interviews, and case studies. NVivo software facilitated the coding process, ensuring consistency and transparency. Emergent themes included predictive content generation, ethical dilemmas, consumer trust, algorithmic bias, and business strategy alignment.

### **Validity and Reliability**

Triangulation across data sources enhanced the credibility of findings (Denzin, 1978). Member checking with interview participants ensured interpretative accuracy. Although the sample size is limited, purposive sampling was used to ensure relevance and depth of insight.

### **Ethical Considerations**

The study adhered to ethical research standards, including informed consent from interviewees and the anonymization of personal data. Ethical approval was obtained from the host institution's review board.

### **Limitations**



This study is limited by its qualitative scope and the evolving nature of generative AI. Results may not be generalizable across all industries or geographic regions. Future research could adopt quantitative methods or longitudinal designs to validate and expand upon these findings.

**Results & Discussion**

The data gathered from expert interviews and case studies revealed several key insights about the evolving role of generative AI in shaping consumer purchase journeys. The themes that emerged reflect not only the practical applications of generative AI but also the strategic and ethical considerations involved in its deployment.

*Theme 1: Transition from Reactive to Predictive Personalization*

One major finding is the move from static, reactive personalization to dynamic, predictive engagement. AI tools are now capable of anticipating consumer needs before they arise. For instance, Amazon's recommendation algorithms integrate generative models that predict what customers might need based on browsing and purchase history, effectively guiding the consumer through the decision-making process.

<b>Company</b>	<b>Generative AI Use Case</b>	<b>Predicted Impact</b>
Amazon	Predictive product recommendation engines	Increased conversion and retention
Sephora	Virtual assistants for beauty product selection	Enhanced CX, reduced returns
Coca-Cola	AI-generated ad campaigns	Improved brand engagement

*Theme 2: Enhanced Customer Experience and Engagement*

Interviewees highlighted that generative AI contributes to more immersive customer experiences. Sephora, for example, uses generative models in its virtual try-on features to create personalized product recommendations. This has significantly improved user satisfaction and increased average order values.

Moreover, generative AI enables real-time adaptation. As one AI strategist noted: "It's not just about what the customer did yesterday, but predicting what they will feel like tomorrow." This kind of forward-looking personalization creates a sense of intimacy and relevance that traditional models fail to achieve.

*Theme 3: Ethical and Trust Concerns*

A recurring theme across interviews was concern about transparency, bias, and consumer manipulation. Several experts expressed the need for AI to be explainable and for organizations to ensure fairness in how predictive insights are applied.

<b>Ethical Concern</b>	<b>Description</b>	<b>Potential Solution</b>
Data privacy	Predictive systems require sensitive data	Transparent data policies
Algorithmic bias	Skewed data can lead to unfair targeting	Diverse training datasets



Autonomy	Consumers might be unknowingly influenced	Ethical AI design principles
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*Theme 4: Strategic Differentiation and Competitive Advantage*

Generative AI is also seen as a lever for strategic differentiation. Companies that successfully implement predictive AI strategies can unlock superior customer loyalty and market share. Coca-Cola’s use of AI to design marketing content tailored to consumer mood states is an example of how generative AI can align brand identity with consumer psychology.

*Theme 5: Operational Challenges and Implementation Gaps*

Despite its promise, several operational challenges hinder broader adoption. These include high costs, lack of technical expertise, and integration issues with existing IT infrastructure. Companies must overcome these barriers to fully realize the potential of generative AI.

**Discussion**

The results of this study reinforce the growing consensus that generative AI represents a disruptive innovation in digital marketing, particularly in how it redefines consumer purchase journeys. The shift from reactive personalization—where marketers respond to known consumer preferences—to predictive personalization—where AI anticipates needs and desires—is a paradigm shift that is transforming both marketing strategy and consumer experience.

*From Static Segmentation to Predictive Individualization*

The transition from segmentation-based personalization to individual-level prediction represents more than a technological advancement—it signals a change in marketing philosophy. Traditional marketing, guided by the STP (Segmentation, Targeting, Positioning) model, is gradually giving way to what could be termed the PPP model—Predict, Personalize, Persuade. Generative AI systems synthesize multimodal data inputs to create hyper-relevant touchpoints that evolve with consumer behavior in real time.

This finding aligns with Lemon and Verhoef’s (2016) call for a dynamic model of customer experience, one that reflects real-time interactions across omnichannel ecosystems. The consumer journey is no longer a linear funnel but a fluid, responsive loop. In this context, generative AI not only facilitates better engagement but also accelerates decision-making, shortening the path from awareness to conversion.

*Consumer Experience as a Strategic Asset*

Customer experience (CX) has become a critical driver of competitive advantage. Generative AI enhances this asset by delivering not just personalized content but contextually adaptive experiences. Sephora’s use of AI-powered virtual stylists, for instance, goes beyond product matching—it integrates fashion trends, user behavior, and even emotion detection to co-create value with the consumer.

This redefinition of value creation represents a strategic inflection point. As Rust (2020) notes, brands that anticipate consumer needs can create emotional resonance,



a psychological anchor that drives repeat engagement. Generative AI's ability to simulate empathy—through tone-adaptive messaging or emotionally intelligent chatbots—contributes significantly to brand intimacy and perceived authenticity.

Yet, the richness of these experiences also brings complexity. Interviewees highlighted the “creepiness factor” when AI becomes too accurate, predicting desires users had not yet consciously formed. This raises critical questions about consumer autonomy, which intersects both marketing ethics and behavioral economics.

### *Ethical Ambiguities and the Illusion of Free Choice*

One of the more nuanced insights from this study is the ethical gray area in which predictive AI operates. While personalization has always walked the line between assistance and manipulation, generative AI blurs that line further. The distinction between nudging and coercion becomes less clear when consumers are unaware that their behavior is being influenced by a predictive system calibrated to their cognitive biases and emotional states.

From a Foucauldian perspective, this shift could be interpreted as a form of soft surveillance—consumers are guided and influenced in ways that align with corporate goals under the guise of relevance and convenience. Binns (2018) warns that algorithmic decisions, particularly those based on historical behavioral data, can entrench bias and reduce diversity in consumer options, effectively creating echo chambers in commerce.

Interviewees called for transparency, particularly around algorithmic decision-making and data sourcing. The concept of Explainable AI (XAI) emerged repeatedly as a potential mitigator of consumer distrust. Brands that can explain “why you are seeing this offer” or “how this recommendation was generated” are more likely to retain trust, especially in data-sensitive sectors like health, finance, and education.

### *Industry-Level Variability in AI Adoption*

The research also uncovered significant variation in generative AI implementation across industries. Tech-forward sectors such as e-commerce and digital media (e.g., Amazon, Netflix) have rapidly embraced predictive personalization, while sectors like healthcare and education remain cautious due to higher regulatory and ethical standards.

For instance, Coca-Cola's generative campaigns focus on emotional storytelling and mood-based content creation. These applications are less intrusive and carry fewer ethical risks than AI-driven credit scoring or medical diagnostics. As such, sectoral context shapes not only the adoption of generative AI but also the ethical frameworks and risk tolerance surrounding it.

This underscores the importance of situational alignment: predictive personalization must be tailored not only to consumers but also to industry-specific norms, regulatory landscapes, and stakeholder expectations. A one-size-fits-all approach to AI governance is unlikely to succeed.

### *From Differentiation to Democratization*



Interestingly, some interviewees expressed concern that the very technology offering strategic differentiation today may soon become table stakes. As generative AI tools become more accessible—through platforms like Chat-GPT, Midjourney, or Adobe Firefly—the barriers to entry fall. This democratization may lead to “AI fatigue” where consumers become desensitized to predictive experiences that once felt magical.

In this environment, differentiation will depend not only on AI capability but on human creativity and ethical integrity. The future of predictive personalization may lie in hybrid approaches—AI-human collaboration that blends automation with authentic brand storytelling. For example, while an AI may generate the skeleton of a campaign, human marketers could refine the emotional tone, humor, or cultural nuance to maintain a distinct brand voice.

### *Organizational Readiness and Transformation*

Beyond technology, successful deployment of generative AI demands a culture shift. Firms must develop not only technical infrastructure but also a data-literate workforce, agile leadership, and cross-functional collaboration. Several interviewees pointed to a persistent “AI knowledge gap” between C-suite visionaries and operational teams — disconnect that can stall implementation or lead to ethical oversights.

Dwivedi et al. (2023) emphasize that AI-readiness must be measured not by tool acquisition but by organizational agility, governance maturity, and stakeholder inclusivity. This includes integrating ethical design principles into the product development lifecycle, adopting privacy-by-design protocols, and fostering ongoing dialogue between technologists, marketers, and ethicists.

### *Balancing Innovation and Governance*

Finally, this study reaffirms the need to balance innovation with governance. Rapid technological evolution outpaces regulatory frameworks, creating a lag that can either stifle innovation or allow harmful practices to proliferate unchecked. Organizations must proactively self-regulate, anticipating societal expectations and reputational risks.

Some experts proposed an industry-wide code of conduct or certification system for ethical AI use in marketing, akin to sustainability standards in ESG reporting. Others highlighted the importance of consumer education—empowering users to understand, challenge, and opt out of algorithmic personalization when desired.

## **Conclusion**

Generative AI is redefining the contours of consumer engagement by enabling marketers to move beyond personalization into the realm of accurate prediction. Through the synthesis of user data, behavioral patterns, and real-time interactions, AI systems now offer highly individualized experiences that anticipate consumer needs before they manifest. This transformation is driving enhanced engagement, improved ROI, and novel forms of strategic differentiation.

However, the adoption of generative AI also introduces complex ethical and operational challenges. Issues such as data privacy, algorithmic fairness, and user



autonomy must be carefully navigated to ensure responsible AI deployment. Organizations must establish robust governance frameworks and invest in explainable AI systems to maintain consumer trust.

The implications for marketing professionals are profound. To stay competitive, brands must not only integrate generative AI technologies but also align their implementation with ethical standards and strategic goals. Future research should explore longitudinal impacts of predictive AI on consumer behavior and further investigate regulatory approaches to AI governance.

Ultimately, generative AI holds the potential to reshape the consumer journey in transformative ways. Its thoughtful and responsible application will determine whether this potential leads to empowerment or exploitation.

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