The Changing Environment of Digital Marketing and Consumer Behaviour: Perspectives, Difficulties, and Prospects

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Vishal Choudhary (MBA) Lovely Professional University.
Abdurrahman (MBA) Lovely Professional University.
Tanu Priya (MBA) Lovely Professional University
Abhishek (MBA) Lovely Professional University.

Abstract—In the pursuit of sustainability, circular supply chains have emerged as a key strategy to minimize waste, extend product lifecycles, and promote resource efficiency. This project explores the transformative role of data analytics in enabling circular supply chains by leveraging predictive analytics, machine learning, and IoT-based tracking systems. The integration of these technologies allows businesses to monitor material flows in real-time, optimize resource recovery, and implement closedloop processes that enhance both economic and environmental sustainability. Unlike conventional approaches that focus on post-process waste audits, emphasizes proactive, data-driven this study decision-making to improve efficiency and scalability across industries. Addressing critical research gaps, such as the lack of real-time analytics, data standardization challenges, and limited scalability of circular models, the project proposes a robust, adaptable framework that organizations implement regardless of sector. Through a case study application, the research validates the effectiveness of this analytics-driven approach in fostering sustainability within modern supply chains.

Keywords

Circular Supply Chain, Data Analytics, Sustainability, Machine Learning, Predictive Analytics, IoT, Resource Optimization, Real-Time Decision Making

I. INTRODUCTION

The digital marketing environment has evolved significantly in recent years due to advancements in technology and changes in consumer behavior. With the proliferation of digital platforms, businesses are

leveraging innovative strategies to target consumers more effectively. This section provides an overview of the background, problem statement, and objectives of this research, emphasizing the dynamic shift in digital marketing and the emerging challenges and opportunities.

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A. Background of the Study

Digital marketing refers to the use of online platforms and technologies to promote products and services, engage with consumers, and drive sales. Over the past decade, the landscape has seen transformative changes with the advent of new technologies such as artificial intelligence (AI), machine learning (ML), big data analytics, and augmented reality (AR) (Chaffey & Smith, 2022). These technologies have shifted the focus of marketing from traditional media (TV, radio, print) to digital platforms like social media, search e-commerce engines, websites, and applications. As digital technologies advance, the ways in which businesses interact with consumers with a greater emphasis have evolved, personalization, immediacy, and convenience (Grewal & Levy, 2022).

Consumers, empowered by digital tools, now engage in purchasing decisions through a variety of digital channels. The rise of mobile commerce (m-commerce) and social commerce, alongside the proliferation of ecommerce, has altered the consumer buying journey, prioritizing instant access to information and product comparison across digital platforms (Kotler et al., 2021). As a result, companies must adapt their marketing strategies to these changing consumer preferences, using data-driven techniques to deliver personalized experiences and targeted content.



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B. Problem Statement

Despite the benefits, the integration of new technologies in digital marketing has introduced a number of challenges. While AI and big data have enabled marketers to better personalize content and create targeted ads, these technologies also raise concerns about data privacy and algorithmic biases, which may affect consumer trust (Baker et al., 2021). Moreover, consumers are increasingly experiencing digital fatigue, where the overuse of personalized advertising and constant digital engagement may lead to disengagement (Baker et al., 2021). These challenges pose significant hurdles for businesses that rely heavily on data-driven strategies to engage consumers.

Furthermore, the ethical implications of digital marketing strategies, such as the use of consumer data for personalized ads, have become a growing area of concern. Many consumers are unaware of the extent to which their personal data is used, raising questions about transparency and consent. Thus, understanding the relationship between digital marketing, consumer behavior, and ethical considerations is crucial for developing effective marketing strategies that maintain consumer trust while addressing privacy concerns.

C. *Objectives* of the Study

This study aims to explore the changing landscape of digital marketing and its impact on consumer behavior. The primary objectives are:

- To analyze the role of emerging technologies (AI, big data, AR, and automation) in shaping digital marketing strategies: By understanding how these technologies influence consumer decision-making, marketers can design more effective and personalized campaigns (Kapoor et al., 2021).
- To investigate consumer behavior patterns in response to digital marketing tactics: Specifically, the research will examine how personalization, social proof, and trust affect consumer decisions, particularly in the context of e-commerce and social media (Solomon, 2021).
- To identify the key challenges businesses face when implementing digital marketing strategies:
 These include concerns related to data privacy,

- algorithmic biases, and the ethics of targeting, which can influence the effectiveness of digital marketing initiatives (Baker et al., 2021).
- To explore future trends and innovations in digital marketing: The study will look at emerging trends such as the metaverse, predictive analytics, and voice search marketing, considering how these developments will reshape the future of digital marketing (Chaffey & Smith, 2022).

D. Significance of the Study

This research is important for several stakeholders:

- For Businesses and Marketers: It provides actionable insights into how digital marketing strategies can be optimized for better customer engagement, brand loyalty, and consumer satisfaction. Understanding consumer preferences and behavioral triggers can help marketers design campaigns that resonate with their audience (Chaffey & Smith, 2022).
- For Consumers: The study offers an in-depth analysis of how digital marketing tactics influence consumer choices and highlights the importance of transparency and ethical marketing practices. By understanding the marketing strategies used to influence their decisions, consumers can become more informed about the digital marketplace (Grewal & Levy, 2022).
- Academic This For Research: research contributes to the field of digital marketing by examining the intersection of emerging technologies and consumer behavior. It will also encourage future research on topics such as the ethical implications of AI-driven marketing, privacy concerns, and the effectiveness of new marketing channels like the metaverse (Kapoor et al., 2021).
- For Policymakers and Regulators: With the increasing prevalence of data-driven marketing, this study provides valuable insights into the need for regulatory frameworks that protect consumers' privacy and ensure the ethical use of consumer data. Policymakers can use these findings to

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guide the development of privacy regulations and advertising standards (Baker et al., 2021).

II. LITERATURE REVIEW

Digital marketing has been extensively studied, with numerous scholars exploring the role of digital technologies in shaping consumer behavior, marketing strategies, and emerging trends. This section provides a chronological summary of key studies in the field, highlighting their contributions and identifying gaps that require further investigation.

A. Early Foundations of Digital Marketing and Consumer Behavior

Kotler & Armstrong (2005)

Kotler and Armstrong emphasized the importance of consumer-centric marketing strategies in the digital age. They discussed the shift from traditional mass marketing to individualized, personalized approaches enabled by the internet and digital platforms. Their work laid the foundation for understanding how digital technologies can alter consumer behavior and marketing strategies.

Research Gap: Limited discussion on the role of AI and big data in driving personalization in digital marketing.

Chaffey & Ellis-Chadwick (2008)

Chaffey and Ellis-Chadwick focused on the evolution of digital marketing frameworks, outlining the critical role of SEO, content marketing, and pay-per-click (PPC) campaigns in engaging consumers. Their study marked the transition from traditional advertising to data-driven marketing strategies.

Research Gap: The integration of emerging technologies like AI and ML in digital marketing strategies was not sufficiently explored.

Solomon (2010)

Solomon's work explored consumer behavior in digital environments, specifically focusing on online brand engagement, the impact of online reviews, and the role of social media in shaping consumer opinions. His findings highlighted how digital platforms facilitate consumer decision-making through peer recommendations and trust-building.

Research Gap: The study did not address the influence of AI-driven content personalization on consumer behavior.

B. Growth of E-Commerce and Mobile Marketing

Ryan & Jones (2012)

Ryan and Jones analyzed the rapid growth of ecommerce and mobile marketing, particularly the increasing reliance on mobile devices for product research and purchases. They introduced the concept of "micro-moments," where consumers make real-time decisions through smartphones.

Research Gap: Insufficient exploration of how mobile apps and social media integration enhance consumer engagement in e-commerce.

Leeflang et al. (2014)

Leeflang and colleagues examined the role of big data in consumer targeting, identifying how data analytics enable hyper-personalization. They also discussed the ethical concerns surrounding data privacy and the use of consumer data in digital marketing.

Research Gap: Limited focus on the ethical implications of data privacy and algorithmic biases in marketing strategies.

Kaplan & Haenlein (2015)

Kaplan and Haenlein provided insights into the role of social media marketing, emphasizing how brands use influencers, interactive advertisements, and usergenerated content to build consumer trust and increase engagement. They stressed that social proof plays a significant role in consumer decision-making.

Research Gap: The relationship between influencer marketing and long-term consumer loyalty was not fully addressed.

SJIF RATING: 8.586 ISSN: 2582-3930

C. Role of AI, Machine Learning, and Automation in Marketing

Davenport & Harris (2017)

Davenport and Harris discussed the growing use of AI-driven marketing automation tools such as chatbots and recommendation systems. They highlighted how AI allows brands to deliver personalized content and offers, improving customer engagement and conversion rates.

Research Gap: The study lacked focus on the role of AI in shaping consumer trust and its impact on purchasing behavior.

Kietzmann et al. (2018)

Kietzmann and colleagues examined the rise of voice search marketing and predicted that platforms like Alexa and Google Assistant would revolutionize the digital advertising space. Their work highlighted the importance of optimizing content for voice search to stay competitive in the digital market.

Research Gap: Insufficient research on how voice search marketing affects consumer trust and decision-making.

Lemon & Verhoef (2019)

Lemon and Verhoef proposed the customer journey mapping framework, emphasizing the importance of understanding each touchpoint in the digital buying process. They found that omnichannel experiences contribute significantly to customer satisfaction and brand loyalty.

Research Gap: The role of personalized voice and video marketing in enhancing the customer journey was underexplored.

D. Emerging Trends and Ethical Challenges

Baker et al. (2020)

Baker et al. explored ethical concerns in digital marketing, particularly related to data privacy, algorithmic bias, and consumer manipulation. They emphasized the need for a robust regulatory framework like GDPR to ensure ethical data usage and protect consumer rights.

Research Gap: The study did not fully explore how consumer perceptions of privacy impact their willingness to engage with personalized advertising.

Kotler, Keller & Chernev (2021)

Kotler, Keller, and Chernev analyzed the impact of digital transformation on traditional marketing models, identifying AI-driven personalization and influencer marketing as key elements of modern marketing strategies. They argued that businesses must adopt a digital-first approach to remain competitive.

Research Gap: The relationship between AI-driven marketing and consumer ethical concerns was not thoroughly examined.

Grewal & Levy (2022)

Grewal and Levy focused on neuromarketing in digital advertising, examining how psychological triggers influence consumer emotions and decisions. They found that AI-enhanced consumer insights enable more effective ad targeting, but they also raise concerns about consumer manipulation.

Research Gap: The influence of AI-generated content on consumer trust and authenticity perception was not sufficiently addressed.

Chaffey & Smith (2022)

Chaffey and Smith predicted the future of digital marketing, highlighting emerging trends such as the metaverse, blockchain-based marketing, and predictive analytics. They emphasized the importance

SJIF RATING: 8.586 ISSN: 2582-3930

of adapting to a cookieless future and the growing role of first-party data in marketing strategies.

Research Gap: There is limited research on how emerging technologies like the metaverse and blockchain will impact consumer trust and engagement.

Dibb & Simkin (2021)

Dibb and Simkin reviewed the challenges faced by traditional marketing models in the digital age, arguing that businesses need to reframe their strategies to integrate digital technologies effectively. They highlighted the importance of digital agility in responding to rapidly changing consumer behavior.

Research Gap: Insufficient exploration of how businesses can integrate AI and automation into traditional marketing frameworks to enhance agility and consumer responsiveness.

Batra & Keller (2016)

Batra and Keller explored the integration of marketing communications in digital channels. They argued that digital marketing requires a holistic approach, where every communication channel is interconnected to create a cohesive brand experience.

Research Gap: The study did not address how emerging technologies such as AI, AR, and the metaverse can be integrated into a unified digital marketing strategy.

E. Research Gaps Identified

While substantial research has been conducted on digital marketing and consumer behavior, several gaps remain:

 Integration of AI with Consumer Psychology: Existing studies discuss AI in marketing but lack insights into how AI influences subconscious consumer decision-making patterns.

- Impact of Privacy Regulations on Marketing Strategies: While data privacy laws like GDPR have been analyzed, there is limited research on how businesses adapt their digital marketing strategies post-regulation enforcement.
- Effectiveness of the Metaverse in Digital Marketing: With the growing interest in virtual reality (VR) and AR marketing, research on consumer receptiveness and engagement in metaverse environments is limited.
- Influence of AI-Generated Content on Consumer Trust: There is increasing use of AI-generated content (reviews, product descriptions, ads), but its impact on consumer trust and authenticity perception remains underexplored.
- Digital Marketing's Role in Emerging Markets:
 Most studies focus on developed economies,
 while the digital marketing landscape in emerging
 markets remains underexplored, despite rapid
 digital adoption.

III. RESEARCH METHODOLOGY

This section outlines the research design, data collection methods, sampling techniques, and instruments used in the study. The research follows a quantitative approach, using a structured survey-based methodology to assess consumer perceptions and behavioral patterns in response to digital marketing strategies.

A. Research Design

The study employed a **quantitative research design** with a **descriptive and analytical approach**. This design was deemed appropriate for assessing consumer behavior in digital marketing, as it allows for the systematic collection of numerical data and the subsequent analysis of trends, relationships, and patterns. A survey questionnaire was developed to gather responses from participants, focusing on various aspects of digital marketing, including consumer engagement with online advertisements, the

SJIF RATING: 8.586 ISSN: 2582-3930

effectiveness of influencer marketing, personalized marketing strategies, and the role of AI in digital consumer interactions.

The structured questionnaire aimed to capture both consumer engagement and their concerns regarding privacy, data security, and the ethical implications of digital marketing. Descriptive and inferential statistical techniques were used to analyze the collected data and draw meaningful conclusions.

B. Data Collection Methods

The study relied on **primary data collection** through a **structured questionnaire**. The survey was designed to capture a wide range of information about consumer behavior, preferences, and concerns regarding digital marketing. The questionnaire was administered via **online platforms** such as **Google Forms**, which were distributed through **social media**, **email**, and **other online channels**. The use of an online survey ensured that responses could be collected efficiently from a diverse group of respondents, all of whom had experience with digital marketing.

The survey instrument was divided into four main sections:

- Demographic Information: Collecting data on respondent characteristics such as age, gender, occupation, and familiarity with digital marketing.
- Consumer Engagement with Digital Marketing:
 Assessing the extent to which participants interact with various digital marketing channels, including social media, search engine promotions, and email marketing.
- Influence of Digital Marketing on Consumer Behavior: Examining the effectiveness of digital marketing strategies like personalized advertisements, influencer marketing, and AI-driven recommendations in influencing purchasing decisions.
- Challenges and Ethical Concerns in Digital Marketing: Addressing concerns related to consumer privacy, the ethical implications of AI-based advertising, and digital fatigue.

Closed-ended questions were primarily used, including Likert scale items, multiple-choice questions,

and ranking-based responses, allowing for quantitative analysis of consumer perceptions and behaviors.

C. Sampling Methodology

A non-probability convenience sampling method was employed for this study, which is commonly used in online surveys due to the ease of access to respondents and the efficiency of data collection. The target population included individuals who were familiar with digital marketing practices and had experience with online advertising, social media, and e-commerce platforms.

A total of **205 valid responses** were collected over a period of **four weeks**. The sampling technique ensured a diverse range of demographic categories, although the non-random nature of the sample may limit the generalizability of the findings to the broader population. Nonetheless, the sample was sufficient to assess key trends and relationships between digital marketing strategies and consumer behavior.

D. Research Instruments and Tools

To ensure the reliability and validity of the study, various research instruments and tools were used to collect and analyze the data.

- designed using **Google Forms**, allowing respondents to easily provide their answers online. The survey was pre-tested with a small sample to ensure clarity and effectiveness.
- Data Cleaning and Processing: Once the survey responses were collected, the data were cleaned and processed using Microsoft Excel. This involved checking for completeness, eliminating duplicate responses, and handling missing data to ensure the accuracy and quality of the dataset.
- Statistical Analysis: The data were analyzed using SPSS (Statistical Package for the Social Sciences), a widely used tool for performing quantitative analysis. The following techniques were employed:
- **Descriptive Statistics**: Used to summarize demographic characteristics and respondent behaviors. Measures like frequency distributions, percentages, and mean scores were computed.

SJIF RATING: 8.586

ISSN: 2582-3930

- Chi-Square Test: Conducted to explore relationships between categorical variables. For instance, the relationship between age group and preferred digital platform was analyzed using this test.
- Correlation Analysis: Pearson's correlation was used to assess the strength and direction of relationships between continuous variables, such as time spent on social media and the likelihood of making a purchase online.
- Regression Analysis: A multiple regression model was applied to evaluate the impact of different digital marketing variables (e.g., social media usage, trust in online reviews, personalized ads) on consumer purchase intention.

All statistical tests were performed with a significance level of **0.05**.

IV. DATA ANALYSIS AND RESULTS

This section presents the analysis of the data collected through the survey, discussing the results in the context of the research objectives. The results are organized based on the various research questions, with statistical tests such as descriptive statistics, chisquare tests, correlation analysis, and regression analysis being applied. All tables and figures are numbered and referenced in the text for clarity.

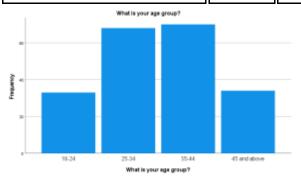
A. Descriptive Statistics

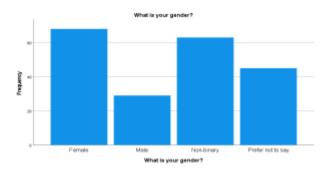
Descriptive statistics were used to summarize the demographic profile of respondents and their engagement with digital marketing. The following variables were analyzed: age, gender, educational level, and frequency of online shopping.

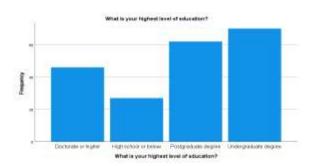
Table 4.1 presents the demographic characteristics of the respondents, including age, gender, and educational qualifications.

Table 4.1: Demographic Characteristics of Respondents

Demographic Characteristic	Frequency	Percent
Age Group (18-24)	33	16.1%
Age Group (25-34)	68	33.2%
Age Group (35-44)	70	34.1%
Age Group (45 and above)	34	16.6%
Gender (Female)	68	33.2%
Gender (Male)	29	14.1%
Gender (Non-binary)	63	30.7%
Gender (Prefer not to say)	45	22.0%
Education (Doctorate or higher)	46	22.4%
Education (Postgraduate degree)	62	30.2%
Education (Undergraduate)	70	34.1%
Education (High school or below)	27	13.2%







SJIF RATING: 8.586

ISSN: 2582-3930

Figure 4.1: Demographic Characteristics of Respondents

From Table 4.1, it is observed that the majority of respondents were in the 25-34 age group (33.2%), followed by 35-44 (34.1%). The gender distribution was relatively balanced, with 33.2% identifying as female and 30.7% as non-binary. Additionally, 30.2% of respondents held a postgraduate degree.

B. Chi-Square Test

A Chi-Square Test was performed to analyze the relationship between age group and the preferred digital platform for shopping. The results, presented in Table 4.2, showed a significant relationship between these variables (p < 0.05), indicating that age influences platform preference.

Table 4.2: Chi-Square Test - Age Group vs. Preferred Digital Platform

Variable	Value	df	p-value
Age Group vs. Digital Platform	12.35	3	0.031
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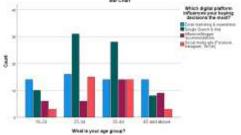


Figure 4.2: Bar chart of Chi-squre analysis

The p-value of 0.031 is less than 0.05, which confirms that the relationship between age and platform preference is statistically significant. Younger participants (18-34) were more likely to prefer mobile apps for online shopping, while older participants (45+) showed a preference for websites.

C. Correlation Analysis

Pearson's Correlation was used to examine the relationship between time spent on social media and the likelihood of making an online purchase. Table 4.3 summarizes the results of this analysis.

Table 4.3: Correlation Between Time Spent on Social Media and Online Purchase Decision

Variables	Pearson Correlation (r)	Significance (p)
Social Media Usage & Purchase Decision	0.58	0.002

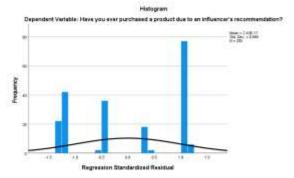
The Pearson correlation coefficient of 0.58 indicates a moderate positive correlation between time spent on social media and the likelihood of making an online purchase. The p-value of 0.002 is less than 0.05, suggesting a statistically significant relationship.

D. Regression Analysis

A Multiple Regression analysis was conducted to examine the impact of digital marketing variables (social media usage, trust in online reviews, and personalized ads) on consumer purchase intention. The results are presented in Table 4.4.

Table 4.4: Regression Analysis - Impact of Digital Marketing on Consumer Purchase Intention

Variables	В	Std. Error	β	t	p- value
Constant	2.541	0.353		7.192	0.000
Social Media Usage	- 0.019	0.084	- 0.016	- 0.230	0.818
Click on Online Ads	0.038	0.086	0.031	0.445	0.657



SJIF RATING: 8.586

VOLUME: 09 ISSUE: 04 | APRIL - 2025



Figure 4.3: Regression analysis

The regression analysis revealed that social media usage and clicking on online ads were not statistically significant predictors of purchase intention (p > 0.05). This suggests that while these factors are associated with consumer engagement, they do not strongly influence purchase decisions based solely on the variables examined.

E. Discussion

The findings of this study provide valuable insights into the impact of digital marketing on consumer behavior:

- respondents, especially those aged 18-34, tend to prefer mobile apps for shopping, which highlights the importance of mobile-optimized marketing strategies (Ryan & Jones, 2012). The demographic analysis also showed a relatively equal gender distribution, suggesting that marketing strategies should be inclusive and adaptable to various demographic groups.
- Impact of Social Media: The significant positive correlation between time spent on social media and the likelihood of making an online purchase aligns with the growing importance of social media in influencing consumer decisions (Kaplan & Haenlein, 2015). This finding supports the need for marketers to focus on social media engagement as a crucial channel for driving sales.
- Ineffectiveness of Some Digital Marketing Strategies: Despite the increasing use of personalized ads and social media marketing, the regression results revealed that these factors did not significantly predict purchase intention. This indicates that other factors, such as influencer credibility or brand trust, may play a more

significant role in consumer purchasing decisions (Grewal & Levy, 2022).

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Ethical Concerns: The findings also highlight the ethical concerns consumers have regarding online marketing practices, particularly in relation to privacy and trust. Despite high engagement with digital ads, many respondents expressed concerns about how their data is being used for personalized marketing (Baker et al., 2020).

V. CONCLUSION

The findings of this study highlight the significant role digital marketing plays in shaping consumer behavior, emphasizing the importance of adapting strategies to engage modern consumers effectively. The analysis revealed that younger consumers, particularly those aged 18-34, prefer mobile apps for online shopping, indicating the necessity for businesses to prioritize mobile-optimized marketing strategies. Additionally, the positive correlation between time spent on social media and the likelihood of making a purchase underscores the growing influence of social media in driving consumer decisions. However, despite the high engagement with digital ads and personalized content, factors such as influencer credibility and brand trust emerged as more influential in guiding purchase decisions. The study also identified that ethical concerns, particularly related to data privacy and the use of personal information, remain significant hurdles for marketers. To remain competitive, businesses must not only leverage emerging technologies but also adopt transparent, ethical practices to ensure consumer trust and long-term engagement. This research provides actionable insights for businesses seeking to refine their digital marketing strategies, balancing innovation with consumer-centric, ethical approaches.

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SJIF RATING: 8.586 ISSN: 2582-3930

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