International Journal of Creative and Open Research in Engineering and Management
ISSN: **3108-1754 (Online)**
Volume 02 Issue 07 July-2026 | Impact Factor: 3.5

Consumer Buying Behaviour in the AI-Driven Era

(A Strategic, Financial & Technological Perspective)

A Study on the Impact of Artificial Intelligence on Modern Consumer Decisions

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How to Cite this Article:
Katiyar, G. (2026). Consumer Buying Behaviour in the AI-Driven Era (A Strategic, Financial & Technological Perspective). International Journal of Creative and Open Research in Engineering and Management, <i>02</i>(7). https://doi.org/10.55041/ijcope.v2i7.087

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ABSTRACT

This research report examines the evolving landscape of consumer buying behaviour in the context of Artificial Intelligence (AI). The rapid integration of AI technologies into e-commerce platforms, financial applications, and digital retail ecosystems has fundamentally transformed the way consumers discover, evaluate, and purchase products. This study investigates the extent to which AI-powered tools such as recommendation engines, chatbots, personalisation algorithms, and predictive analytics influence consumer decision-making processes.

Primary data was collected through a structured questionnaire administered to 50 respondents comprising students, working professionals, and business owners. The findings indicate that a significant majority of consumers are influenced by AI-driven recommendations, with 76% of respondents having made at least one AI-influenced purchase. Additionally, the study highlights growing adoption of AI-based financial management tools among younger demographics. The report concludes with actionable recommendations for businesses, marketers, and policymakers seeking to leverage AI responsibly to enhance consumer experiences.

Keywords: Artificial Intelligence, Consumer Behaviour, E-Commerce, Personalisation, Digital Marketing, Buying Decision, Machine Learning, Recommendation Systems.

1. INTRODUCTION

1.1 Background of the Study

The global retail landscape has undergone a dramatic transformation over the past decade, driven largely by the proliferation of digital technologies and the internet. Among these technologies, Artificial Intelligence (AI) has emerged as one of the most disruptive forces reshaping how consumers interact with brands, make purchasing decisions, and manage their finances. From the personalised product recommendations on Amazon and Flipkart to the AI-powered chatbots on banking applications, consumers are increasingly engaging with intelligent systems without always being aware of it.

In India, the growth of digital commerce has been particularly pronounced. With over 900 million internet users and a rapidly expanding middle class, India represents one of the largest and fastest-growing consumer markets in the world. The advent of platforms such as Meesho, Myntra, CRED, and Zepto—all of which use AI at their core—has further embedded intelligent systems into everyday consumer journeys.

1.2 Statement of the Problem

Despite the widespread adoption of AI in retail and financial services, there remains a gap in understanding how Indian consumers perceive, trust, and respond to AI-driven interventions. Traditional models of consumer behaviour—such as the AIDA model (Awareness, Interest, Desire, Action) and the Engel-Kollat-Blackwell (EKB) model—do not fully account for the role of algorithmic influence. This research seeks to address that gap by examining real consumer attitudes and behaviours in the AI era.

1.3 Objectives of the Study

- To understand the online shopping habits of modern consumers.
- To examine the awareness and usage of AI-powered recommendation systems.
- To assess the influence of AI tools on actual purchase decisions.
- To evaluate the adoption of AI-based financial and budgeting applications.
- To identify barriers and enablers of AI adoption among consumers.

1.4 Significance of the Study

This study is significant for multiple stakeholders. For businesses, it provides data-driven insights into how AI tools can be deployed more effectively to improve customer satisfaction and conversion rates. For policymakers, it highlights consumer awareness gaps that may require regulatory attention. For consumers, it promotes a better understanding of how AI shapes their choices. For academic researchers, it contributes to the growing body of literature on digital consumer behaviour.

2. LITERATURE REVIEW

2.1 AI and Consumer Decision-Making

Kotler and Armstrong (2020) define consumer buying behaviour as the buying behaviour of final consumers—individuals and households that buy goods and services for personal consumption. They emphasise that purchase decisions are influenced by cultural, social, personal, and psychological factors. The emergence of AI introduces a new layer: algorithmic influence, which can shape all four of these dimensions simultaneously.

Huang and Rust (2021) argue that AI is not merely a tool for automation but a transformative force that personalises consumer experiences at scale. Their research demonstrates that consumers exposed to AI-personalised recommendations exhibit significantly higher purchase intent compared to those presented with generic offerings. This aligns with the concept of the 'paradox of choice'—AI narrows options in a way that reduces decision fatigue.

2.2 Personalisation and Trust

Perceived personalisation is one of the most studied dimensions of AI in consumer research. Awad and Krishnan (2006) first introduced the 'personalisation-privacy paradox,' noting that consumers simultaneously desire personalised experiences and fear the data collection required to deliver them. This tension has intensified with the growth of AI. More recent studies (Chung et al., 2020) find that transparency in how AI uses personal data significantly improves consumer trust and willingness to engage with AI-driven platforms.

2.3 AI-Driven Financial Behaviour

Beyond product recommendations, AI is increasingly influencing financial consumer behaviour. Robo-advisors, AI-powered credit scoring, and automated EMI (Equated Monthly Instalment) suggestion tools are reshaping how consumers approach spending, saving, and borrowing. Philippon (2019) notes that AI-driven fintech solutions have democratised access to financial services, particularly in emerging economies. In India, applications such as CRED, INDmoney, and Walnut leverage AI to provide personalised financial insights, nudging consumers toward more informed decisions.

2.4 Research Gap

While international literature is rich on AI and consumer behaviour, studies focusing specifically on Indian consumers in the context of both retail and financial AI applications remain limited. Most existing Indian studies focus on urban metros and tech-savvy demographics, leaving a gap regarding semi-urban and student populations. This study attempts to contribute to filling that gap.

3. RESEARCH METHODOLOGY

3.1 Research Design

This study employs a descriptive research design. Descriptive research is appropriate when the goal is to characterise a population or phenomenon without manipulating variables. The study relies on both primary and secondary data sources to build a comprehensive understanding of consumer behaviour in the AI era.

3.2 Research Parameters

Type of Research: Descriptive Research

Research Approach: Quantitative with qualitative interpretation

Data Sources: Primary (Questionnaire) + Secondary (Journals, Reports, Websites)

Research Instrument: Structured Questionnaire (15 Questions)

Sampling Technique: Convenience Sampling

Sample Size: 50 Respondents

Target Population: Students, Working Professionals, Business Owners

Data Collection Period: Academic Year 2024 – 2025

3.3 Questionnaire Structure

The questionnaire was divided into four sections:

- Section A — Personal Information (Q1–Q4): Age, gender, occupation.
- Section B — Consumer Buying Behaviour (Q5–Q8): Shopping frequency, preferences, and influencing factors.
- Section C — AI Influence on Consumer Decisions (Q9–Q12): Awareness, usage, and usefulness of AI tools.
- Section D — Financial Decision Making (Q13–Q15): AI-based budgeting and EMI tool usage.

3.4 Limitations

- The sample size of 50 may not fully represent the entire consumer population.
- Convenience sampling introduces selection bias.
- Responses are self-reported and may be subject to social desirability bias.
- The study does not distinguish between rural and urban consumer behaviours.

4. DATA ANALYSIS & INTERPRETATION

4.1 Demographic Profile

Table 1: Age Group of Respondents

Age Group	No. of Respondents	Percentage (%)
18 – 25 years	22	44%
26 – 35 years	18	36%
36 – 45 years	7	14%
Above 45 years	3	6%
Total	**50**	**100%**

Interpretation: 44% of respondents are in the 18–25 age bracket, reflecting the digital nativity of younger consumers. This cohort is most likely to engage with AI tools on a daily basis through social media, gaming, and e-commerce platforms.

Table 2: Gender Distribution

Gender	No. of Respondents	Percentage (%)
Male	28	56%
Female	20	40%
Prefer not to say	2	4%
Total	**50**	**100%**

4.2 Consumer Buying Behaviour

Table 3: Online Shopping Frequency

Shopping Frequency	No. of Respondents	Percentage (%)
Daily	5	10%
Weekly	18	36%
Monthly	20	40%
Rarely	7	14%
Total	**50**	**100%**

Interpretation: The majority of respondents (40%) shop online monthly. Combined with weekly shoppers (36%), 76% of the sample engages in online shopping at least once a week or month, confirming a strong digital retail culture.

Table 4: Primary Reason for Online Shopping Preference

Reason	No. of Respondents	Percentage (%)
Convenience	22	44%
Discounts & Offers	15	30%
Wide Product Variety	8	16%
Easy Price Comparison	5	10%
Total	**50**	**100%**

Interpretation: Convenience dominates as the primary driver of online shopping (44%). This aligns with the broader literature suggesting that time-saving features—enabled in large part by AI-based search and filters—are the strongest motivators for digital retail adoption.

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4.3 AI Influence on Consumer Decisions

Table 5: Purchase Based on AI Recommendation

Response	No. of Respondents	Percentage (%)
Yes	38	76%
No	12	24%
Total	**50**	**100%**

Interpretation: A striking 76% of respondents have made at least one purchase directly influenced by an AI recommendation. This confirms the commercial effectiveness of recommendation engines deployed by platforms like Amazon, Flipkart, and Myntra.

Table 6: Perceived Usefulness of AI Recommendations

Rating	No. of Respondents	Percentage (%)
Very Useful	20	40%
Useful	18	36%
Neutral	8	16%
Not Useful	4	8%
Total	**50**	**100%**

Interpretation: 76% of respondents rate AI recommendations as useful or very useful. Only 8% find them not useful, suggesting that AI personalisation has achieved a high degree of consumer acceptance across the sample.

4.4 AI in Financial Decision-Making

Table 7: Usage of AI-Based Financial Applications

Response	No. of Respondents	Percentage (%)
Yes	30	60%
No	20	40%
Total	**50**	**100%**

Interpretation: 60% of respondents use AI-based financial tools for expense tracking or budget management. This indicates that AI adoption has extended beyond retail into the financial domain, reflecting a broader digital-first mindset among the surveyed population.

5. CONCLUSION & RECOMMENDATIONS

5.1 Summary of Key Findings

- Young consumers (18–35 years) are the dominant segment in digital shopping, accounting for 80% of the sample.
- Convenience (44%) and discounts (30%) are the primary motivators for online shopping.
- 76% of respondents have made purchases influenced by AI recommendations.
- AI-powered recommendations are regarded as useful or very useful by 76% of respondents.
- 60% of the sample uses AI-driven financial management applications.
- Awareness of AI tools is high, but concerns around data privacy persist among a subset of respondents.

5.2 Conclusion

This research report demonstrates that Artificial Intelligence has profoundly reshaped consumer buying behaviour in the digital era. The integration of AI into e-commerce and financial platforms has made shopping more personalised, convenient, and data-driven. Indian consumers—particularly younger cohorts—are not only aware of AI-driven features but are actively embracing them in their daily purchasing and financial lives.

However, the study also reveals that a segment of consumers remains sceptical, particularly regarding data privacy and the transparency of algorithmic decision-making. For AI to reach its full potential as a consumer-facing technology, businesses must invest in building trust through ethical data practices, explainable AI, and robust consumer education.

5.3 Recommendations

For Businesses & Marketers:

- Invest in transparent AI recommendation systems that explain why a product is being suggested.
- Leverage AI for post-purchase engagement (re-targeting, loyalty programmes) to maximise lifetime consumer value.
- Design mobile-first AI experiences, given that smartphones are the dominant shopping device.

For Financial Institutions:

- Promote AI-based budgeting and savings tools through awareness campaigns targeting first-time earners.
- Ensure algorithmic transparency in AI-suggested EMI and credit products to build consumer trust.

For Policymakers:

- Develop a clear AI consumer rights framework that governs data usage, algorithmic accountability, and redressal mechanisms.
- Encourage digital literacy programmes to help consumers make informed decisions when interacting with AI systems.

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