## Journal of Marketing & Social Research

ISSN (Online): 3008-0711

Volume: 02 | Issue 02 | March-April. | 2025 Journal homepage: https://jmsr-online.com/

#### Research Article

# The Role of Personalization in Digital Retail: Meeting Consumer Expectations

Dr. S. Rabiyathul Basariya<sup>1</sup>, Dr. Prashant Kumar Mishra<sup>2</sup>

Global College Malta, Malta

Submission: 01/03/2025; Received: 09/03/2025;

Revision: 26/03/2025; Published: 02/04/2025

\*Corresponding author: Dr. S. Rabiyathul Basariya (<u>rabiyathul@gcmalta.com)</u>

Doi: https://doi.org/10.61336/jmsr/25-02-10

**Abstract**: This paper explores how personalisation is affecting the fast-growing digital retail market in India, specifically looking at the shifting consumer expectations. The research analyzes how AI personalisation improves consumer engagement and purchasing behaviour while dealing with data privacy issues and compliance with the Digital Personal Data Protection Act of 2023. The most important conclusion is that personalisation increases revenue and customer retention but should also be accompanied by strong data protection policies. It also analyses the strategies of large Indian online retailers such as Amazon, Flipkart, and Nykaa and the difficulties encountered by SMEs in adopting affordable AI technologies. In the end, this paper emphasises the need for personalisation strategies that are responsive to market and legislative changes while remaining socially responsible for the future advancement of digital retailing in India.

**Keywords:** Personalization, Personalised, Retail, Retailers, Customer, Consumers, Data, AI, India, Indian, Digital, Privacy, E-commerce, Experiences

#### INTRODUCTION

The Indian digital retail sector is predicted to grow at a very fast pace, from 85 billion in 2021 to 350 billion by 2030 IBEC, 2023) [1]. This growth stems from consumers expectations of an array of services that are designed specifically for them. There was a study that suggested that 76% of Indian customers prefer e-commerce brands that offer personalisation. AI-driven companies such as Flipkart and Amazon India use algorithms to cater to this need. These platforms observe users and then recommend products that they are more likely to purchase. Beauty retailer Nykaa analysed their clientele and found how personalising recommendations resulted in a whopping 40% boost in sales [2]. It is known that catered engagement keeps the clientele for longer, and personalisation definitely helps with that. Over 70% of Indian customers surveyed by Deloitte in 2021 stated that they had a better impression of marketers if they offered varying promotions. Companies are always searching for better ways to improve customer behaviour, and personalisation is one of them. Customer suggestion tools drastically improve the conversion rates of businesses, and Myntra was no exception when its AI tool surpassed CTR by 30%. However, in order to personally cater to customers, personal data must be utilised and privacy concerns are massive. A study conducted by PwC in 2023 demonstrated that 65% of users are afraid their private data is going to be misused. Legislation like The Digital Personal Data Protection Act, 2023 takes charge of the rules regarding digital commerce and how data is managed [3]. Merchants tend to differ in how they approach personalisation. For example, Reliance Digital utilises personalised offers through real-time analytics. BigBasket relies on past orders to recommend grocery products, and this is further improved with AI and

Machine Learning. Personalised assistance is offered, like in customer care chatbots at Tata Cliq. Hyper personalisation is becoming trendy. Customised discounts from Jio Mart boosted repeat purchase rate by 25%. Personalisation is the way forward for digital retail in India. Companies need to find a middle ground between modification and privacy. The businesses that adopt AI personalisation will lead the industry.

### **Problem Statement**

The digital retail landscape in India is growing at an unprecedented pace; however, personalisation continues to face certain challenges. Indian consumers prefer personalised experiences. However, many retailers are unable to implement personalisation effectively. Poorly designed algorithms provide ΑI recommendations, which lower engagement. Addressing data privacy concerns still poses a challenge. A 2023 PwC survey found that Indian shoppers are particularly concerned, as 65% expressed worry over the misuse of their data [4]. Compliance with the Digital Personal Data Protection Act (2023) requires rigorous compliance with relaying data, decreasing the feasibility of data collection. Lesser-known competitors have little to no access to resources that would make AI-driven personalisation possible. Myntra is a known brand whose AI tool increased click-through rates by 30%; other brands do not have this level of success. Finding a balance between customisation, data protection, and low-cost solutions is difficult. Solving these problems will enable sustainable growth for digital stores in India.

# Aim and Objectives

Aim

To analyze the impact of personalization in digital retail

on consumer expectations in India and identify key challenges and opportunities for effective implementation. *Objectives* 

- To evaluate how AI-driven personalization influences consumer engagement and purchase decisions in India.
- To examine the challenges of data privacy and compliance with the Digital Personal Data Protection Act (2023) in personalized retail.
- To analyze the effectiveness of personalization strategies used by major Indian retailers like Amazon, Flipkart, and Nykaa.
- To identify cost-effective personalization solutions for small and medium digital retailers in India.

#### LITERATURE REVIEW

Personalisation in digital retail is offering new experiences for consumers in India. To enhance engagement and offer personalised advice, retailers assess consumer habits with the aid of AI algorithms. Key players in e-commerce like Amazon India, Flipkart, and Nykaa, adopt data analytics [2]. They monitor their clients to offer personalised product suggestions. Research indicates that personalised experiences in shopping lead to increased sales and customer satisfaction. It is observed that the more relevant recommendations customers see, the more eager they are to make a purchase. Myntra's AI tool aided the company in achieving a 30% increase in their click-through rate. After introducing personalisation, Nykaa reported a sales increase of 40%. In order to implement tailoring, data collection is needed. Online retailers collect user preference, purchase data, and browsing history. With the help of AI, this data is processed and provides up-to-theminute configurable feedback. However, privacy is still a major issue. A recent study reported that 65% of Indian participants expressed negative feelings concerning the mishandling of their personal data. Many users are not willing to provide sensitive information on the internet. The Digital Personal Data Protection Act of 2023 has a lot of teeth [5]. Now businesses must ensure that sensitive data collection and storage takes place. Not complying results in legal consequences and loss of reputation. Striking a balance between personalisation and privacy is a challenge every retailer faces, and this remains crucial.

Retailers also grapple with algorithmic inefficiencies. AI tools sometimes make unrelated recommendations. resulting in poor user experience and less engagement. Small retailers do not have the means for sophisticated AI technology. They struggle to achieve low-cost personalisation. Large retailers deploy machine learning, automation, and chatbots. These advanced technologies enhance customer interactions. Personalised shopping assistance is offered by the chatbots at Tata Cliq. Customised discount offers from JioMart improved repeat purchases by 25% [6]. But not every business has the budget for such advanced systems. Lower cost options are scarce for smaller brands. Digital retailing will enter a new phase with hyper-personalisation. As the name suggests, hyper personalisation utilises AI and predictive analytics to personalise the shopping experience in real time and instantly enhance customer loyalty. Emails,

messages, and notifications tailored for a specific customer increase chances of repeat business. Dynamic pricing is offered by Reliance Digital using real-time analytics. Grocery suggestion at BigBasket is personalised depending on previous purchases [7]. Personalised marketing not only increases chances of conversion, but also results in lesser abandoned carts. Research indicates that consumers are more responsive to customised marketing stimuli. It's no secret that omnichannel personalisation is gaining traction in India. Due to the rapid development of digital shopping on ecommerce websites, consumers now expect seamless experiences across several platforms. For example, many shoppers browse products online but prefer making purchases in physical stores. To achieve better personalisation, retailers are now combining offline and online purchases. With the help of AI, bidder tools analyse consumer traffic, buying tendencies, and web activity, which facilitates building an effortless shopping experience [8]. Nonetheless, the cumbersomeness of execution remains a challenge to many businesses. Plenty of brands fail to amalgamate data from several channels. In order to tackle these barriers efficiently, multisourcing strategies are created integrating bypassing reliant AI nodes.

In the future, there will be an increase in the use of imagery and sound during personal search tasks. AI technology is fundamental to Amazon Alexa and Google Assistant's recommendations. Through visual search, identical products can be located by consumers in no time. Furthermore, augmented reality is another emerging technology on everyone's lips as more and more fashion retailers use AR-based personalisation for virtual try-on items [9]. While these technological developments reinforce customer engagement, the rate at which these technologies are being adopted is very low. This is primarily due to the financial implications and the difficulty implementation presents. Nevertheless, personal touch remains at the core of the Indian digital retail industry. From this point forward, online retailers will pay close attention to data limitations, cost issues and, as described earlier, technological dysfunctions brought by AI. For greater personalisation, both medium and small businesses can learn to benefit from AI technology [10]. The degree of reliance and trust placed on businesses to use the data to customise services while protecting private data is the central theme that will shape Indian digital retail. Those brands looking to harness the data in order to create tailored products and services will be shown superior in the modern and advanced markets.

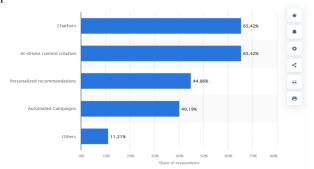
### **METHOD**

Secondary qualitative method has been chosen for this research. This secondary method has supported this research with potential data and effective data analysis technique. Different sources of data such as industry report, government report, press release, news articles and scholar articles have provided this research with wide range of information. The thematic data analysis has helped the research with the development of relevant themes. The proper research ethics such as data protection guidelines were followed for maintaining the privacy of this research data.

#### RESULT AND DISCUSSION

# AI-Driven Personalization: Transforming Clicks into Conversions in Indian Retail

In India's digital retail segment, consumer engagement and conversion rates are optimally boosted due to AI's personalised approach. With the help of AI, retailers are now able to sift through large volumes of customer data and provide user-centric services. This not only increases user experience but also builds allegiance towards the brand. For example, Tata Quiq added Vue.ai's Personalisation Suite which combines customer and product data to make it easier for users to find products, thus enhancing their experiences and increasing conversions [11]. Like Tata, other Indian retail brands have been able to successfully extend AI-aided personalisation.



**Figure 1: Most used AI tools in Indian retail market** (Source:[12])

These examples are a glimpse of how AI can significantly change customer experiences for the better while increasing business opportunities. Implementing AI-driven personalisation solutions also helps resolve operational issues. Real-time analysis of competitor pricing, demand, and consumer actions allows AI to create automated pricing models. These models attract customers sensitive to prices while optimising profit margins for the seller. Nevertheless, AI-driven personalisation comes with its own set of challenges. Widespread adoption still faces barriers like data privacy as well as algorithmic discrimination. Retailers have to consider these ethical issues for the sake of consumer confidence and regulations [13]. Monitoring these challenges may be difficult, but having AI personalised services can greatly benefit the e-commerce Offering personalised industry. experiences allows businesses to strengthen customer interaction, boost conversion, and enhance total marketing productivity.

# The Privacy Dilemma: Balancing Personalization and Data Protection in E-Commerce

The challenge of balancing privacy and personalisation in India's rapidly growing e-commerce sector is multifaceted due to changes in digital regulation. AI and data analytics driven personalisation improves customer experience by customising recommendations and offers. However, this strategy is counterproductive since it requires the collection of sensitive consumer data, such as personally identifiable information, financial data, and online activity. These threats not only result in cyberattacks

and data breaches, leading to loss of trust and financial reputation, but also put the brand at risk [14]. Take, for example, the increasing rate of data breaches that Indian consumers face, which has directly motivated them to reduce their online activities due to privacy fears.

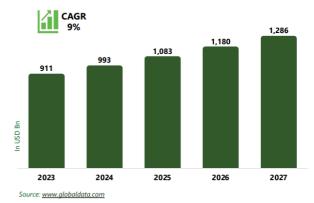


Figure 2: Market Size of Indian Retail Industry

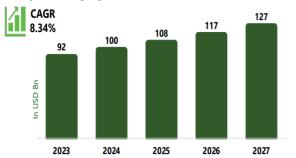
While high-level Amazon and Flipkart spend on new cybersecurity technologies and non-discriminatory policies, there are other far more complex challenges pertaining to India's haphazard legal system. To begin with, India's legal system is plagued with structural issues of dis-coordination and a failure to develop a coordinated plan to deal with consumer data fraught with risks. The Information Technology Act of 2000, which aimed at increasing e-commerce, fails to have substantial clauses to take care of privacy issues [15]. And there is an equally inadequate absence of strong enforcement. Clear regulations that are observed, such as the GDPR in the European Union where innovation and consumer protection coexist, diminish the gravities of the aforementioned issues. In India, it is disproportionately more difficult to sustain this balance because there is a demand for personalisation and responsible handling of data. Participants in the data market exhibit a complex behaviour as some are prepared to forgo privacy for easier access to services or savings, while others completely deny all data disclosures.

Category	Numeric Data
Contribution to India's GDP	Over 10%
Employment Contribution	Around 8%
India's Rank in Global Retail Destination	5th largest
India's Rank in World Bank's Doing Business 2023	63
Expected Retail Sector Value by 2032	US\$ 2 trillion
Shopping Malls (2023-2025)	60 malls covering 23.25 million sq. ft
Middle-Income Households in India	~158 million
Online Shoppers (2020)	150 million
Projected Online Shoppers (2030)	~500 million
Daily E-Commerce Transactions (Dec 2022)	7.8 billion
Projected E-Commerce Market GMV (2030)	US\$ 350 billion

**Table 1:** Key Numeric Insights of India's Growing Retail Sector

How to Cite this: S. Rabiyathul Basariya & Prashant Kumar Mishra; "The Role of Personalization in Digital Retail: Meeting Consumer Expectations" *Journal of Marketing & Social Research*, vol. 2, no. 2, 2025, pp. 60-65.

The division compels firms to formulate trust-building strategies, for instance, integrating consent mechanisms and allowing customers to control the level of their data. Policymakers and businesses need to collaborate to solve these issues. For instance, tougher punishment for breaches coupled with digital education could give power to consumers and responsibility to the platforms. Moreover, independent third-party evaluation and certification could establish credibility regarding the privacy of data [16]



The market is expected to grow at a CAGR of 8.34% to reach USD 127 billion by 2027.

Figure 3: Market Size of Indian Gems & Jewellery

In the absence of such measures, there is considerable danger of the industry losing its expansion inertia due to prickly privacy issues. Striking the equilibrium of personalisation with high privacy fortress is not only a regulatory issue but a business one too. This is vital to keep the vibrant Indian e-commerce market dynamic in a context of swelling expectations and awareness from consumers.

### Beyond Discounts: How Leading Retailers Redefine Personalized Shopping Experiences

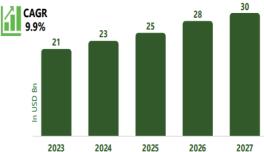
Indian retailers are transforming personalised shopping by going further than just discounts to encourage customer loyalty. Some of the most renowned firms, such as Tata CLiQ, Nykaa, and innovative Reliance Retail, use data-driven personalisation strategies to meet individual customer needs. For example, Nykaa offers beauty products using AI-powered recommendations that are tailored by a person's browsing history, skin type, and past purchases[17]. In the same way, Reliance Retail uses omnichannel personalisation by syncing online and offline data, aiding shoppers across different platforms. These approaches deepen the emotional bonds consumers have with businesses beyond simply offering convenience.

Category	Numeric Data
Projected Retail Industry Growth (2019-	9% CAGR
2030)	
Retail Market Size (2019)	US\$ 779 billion
Projected Retail Market Size (2026)	US\$ 1,407 billion
Projected Retail Market Size (2030)	More than US\$ 1.8
	trillion
Projected Direct Selling Industry Value	US\$ 7.77 billion
(2025)	
India's Rank in E-Retail Shoppers	3rd (after China & US)
(Global)	
Projected D2C Shipments (2030)	2.5 billion
Expected Growth in Online Used Car	9x in 10 years
Transactions	

E-Commerce Industry Growth (YoY)	36.8% in order volumes
India's Retail Market Global Rank	4th largest
Contribution of Retail Sector to GDP	Over 10%
Daily E-Commerce Transactions (Dec	7.8 billion
2022)	
Projected Online Shoppers (2030)	~500 million (from 150
	million in 2020)
Projected Digital Economy Value (2030)	US\$ 800 billion
Projected E-Commerce Market GMV	US\$ 350 billion
(2030)	
Organised Food & Grocery Retailers	14-15% (as per Crisil)
Growth (FY25)	

Table 2: Growth Projections and Key Statistics of India's Retail Industry

Personalised loyalty programmes are a key tactic too; Tata CLiQ's rewards programme allows repeat purchases without deep discounts by employing shopping behaviour-based offers [18]



The Retail Pharmacy market is projected grow at a CAGR of 9.9% to reach USD 30 billion by 2027.

Figure 4: Market Size of Indian Retail Pharmacy Market

Sephora's AI-powered app for virtual makeup applications has prompted Indian retailers to consider similar technologies. Furthermore, brands are able to collect zero-party data with quizzes and feedback forms, enabling customers to share their needs without losing their trust. This change suggests that consumers' expectations are rising, as 71% of shoppers prefer personalised experiences to stock standard options [19]. Indian retailers are managing to establish loyalty in a competitive market by catering to emotional engagement, convenience, and exclusivity. trends demonstrate how deepening personalisation is becoming a matter of strategic necessity for success in the contemporary retail environment.

# The Personalization Gap: Bridging AI Accessibility for Small Retailers in India

The integration of AI-powered personalisation tools can significantly improve customer experience for small and medium e-commerce businesses in India; however, the implementation remains a challenge. Operational costs associated with implementing AI remain exceedingly high due to the need for cutting-edge technology infrastructure, skilled personnel, and comprehensive data integration systems [20]. Smaller retail businesses, as compared to larger retailers such as Amazon or Flipkart, do not have the financial ability to implement advanced AI models or hire specialised

alent, posing a huge challenge.	
Category	Numeric Data
Subway's Planned Expansion in India (Next 5-6 Years)	850 to 1,700 stores
IKEA's Investment in India	Rs. 850 crore (US\$ 102.41 million)
Lulu Group's Investment for Shopping Mall in Gujarat	Rs. 2,000 crore (US\$ 240.96 million)
Retail Trading Sector FDI (April 2000 – June 2024)	US\$ 4.68 billion
Annual Inflation Rate (April 2024)	4.83%
Retail Sales Growth (Sep 2023 – Sep 2024)	5% increase
UPI Transactions Value (January 2024)	Rs. 18.4 lakh crore (US\$ 221.6 billion)
Digital Payment Transactions	From 2,071 crore to
Growth (FY 2017-18 to FY 2022- 23)	13,462 crore (CAGR 45%)

**Table 3: Key Investments and Developments in India's Retail Sector** 

Although SaaS-based platforms and open-source AI tools provide cost-effective solutions, they lack the needed complexity, poorly serving niche markets. In spite of this paradox, some small retailers seem to have devised strategies to counterbalance the gap. For example, transforming relationships about third-party services or using plug-and-play AI components reduces cost and complexity. Partnerships, such as AI adoption training programmes for small businesses by government-supported digital literacy initiatives, can help raise small business capabilities [21].

#### **CONCLUSION**

This research paper on digital retail argues that personalisation is critical to fulfilling consumer needs. It shows how individualisation improves the customer experience and loyalty. However, there are still issues with data privacy and AI for small businesses. Regardless of these challenges, there are new gaps and solutions from strategies and technologies. This research is most likely accurate since it is useful to retailers. Personalisation helps businesses increase customer satisfaction and customer retention. In general, the research shows that individualisation is important for success in digital retail. It enables marketers to respond to the changing preferences of consumers. The results are informative for developing new retail approaches and achieving growth outcomes in the context of digital competition.

**Conflict of Interest:** The authors declare that they have no conflict of interest

**Funding:** No funding sources

**Ethical approval:** The study was approved by the Global College Malta, Malta.

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