IMPACT: International Journal of Research in Business Management (IMPACT: IJRBM) ISSN (P): 2347–4572; ISSN (E): 2321–886X

Vol. 13, Issue 7, Jul 2025, 1–4

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# COGNITIVE CURRENCY: MAPPING INDIAN BANKS CUSTOMERS' MINDSETS TOWARDS AI INTEGRATION IN THE DIGITAL BANKING EPOCH

## Ms.Ameena B E

Assistant-Professor Karnataka College of Management and Science Bangalore

Received: 20 Jul 2025 Accepted: 25 Jul 2025 Published: 31 Jul 2025

## **ABSTRACT**

In the digital banking epoch, the integration of artificial intelligence (AI) has revolutionized banking services, presenting both opportunities and challenges for the industry. This research paper delves into the complex landscape of Indian banks customers' perceptions, attitudes, and preferences towards AI integration in banking. Through a meticulous analysis of survey data collected from a diverse sample of Indian banks customers; this research seeks to unravel the multifaceted aspects of customer mindsets regarding AI-powered banking services. Real-time analysis and interpretation offer valuable insights into the factors shaping customer acceptance, concerns, and expectations in the rapidly evolving digital banking environment.

Despite the increasing significance of AI in banking, there exists a significant gap in understanding Indian banks customers' perceptions and attitudes towards AI-powered services. The research problem addressed in this study is the systematic exploration of Indian bank customers 'mindsets towards AI integration in the digital banking epoch. By delving into customer perceptions and attitudes, the study seeks to uncover underlying factors influencing customer acceptance, resistance, and expectations regarding AI-powered banking services.

**KEYWORDS**: Digital Banking, Artificial Intelligence, AI Integration, Indian banks Customers, Perceptions, Attitudes, Preferences, Real-time Analysis, Customer Engagement Strategies, Responsible AI Development, Financial Inclusion, Personalized Experiences, Cyber security.

## INTRODUCTION

Amid the current wave of intelligent digital disruption, India's banking sector stands at the forefront of digital transformation. The widespread adoption of artificial intelligence (AI) is not only reshaping operational workflows but also revolutionizing how financial institutions engage with customers. From AI-driven chat bots offering instant support to predictive algorithms streamlining credit approvals, the banking experience is becoming increasingly intelligent, seamless, and customer-centric.

Recent developments in generative AI, conversational banking, and hyper-personalized financial services reflect a paradigm shift where automation is no longer a back-end function but a direct touch point with end- users. These innovations, while promising, hinge on one critical factor customer trust and perception. In a market as diverse and digitally dynamic as India, understanding how consumers perceive AI in banking is essential for fostering adoption and long-term satisfaction.

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This study focuses on gauging Indian bank customers 'attitudes toward AI integration, especially in an era defined by data sensitivity, evolving consumer expectations, and competitive fintech innovations. By evaluating awareness, perceived benefits, concerns, and trust dynamics, the research aims to provide a holistic perspective on the customer experience in AI-enabled banking ecosystems.

### LITERATURE REVIEW

Research across global banking market syndicates that AI contributes to improved efficiency, fraud prevention, and customer engagement (Singh & Mehta, 2022). within the framework of India, adoption is influenced not only by digital infrastructure but also by socio-cultural factors affecting trust and familiarity (Verma & Rao, 2021). While many banks have introduced artificial intelligence solutions, user concerns surrounding algorithmic transparency and data misuse continue to impact customer loyalty and technology adoption (Mukherjee, 2020).

## **Research Objectives**

- To examine customer familiarity with AI in banking
- To analyze how frequently and for what purposes AI-based services are used
- To assess trust and confidence in artificial intelligence solutions
- To gather feedback on user experience and potential improvements

### METHODOLOGY

This study employs a descriptive research design using a structured online questionnaire administered via Google Forms. A stratified random sampling technique was used to ensure representation across age, occupation, and education levels. The sample consisted of 200 participants from varied socio-demographic backgrounds. The responses were analyzed using descriptive statistics such as percentages and frequency distributions.

# RESULTS AND ANALYSIS

### Awareness of AI in Banking

The survey results indicated that approximately 65% of respondents were aware that Artificial Intelligence (AI) is integrated into their banking services. This awareness was particularly higher among younger individuals, urban populations, and those with professional or academic backgrounds in technology or finance. On the other hand, around 35% lacked awareness of AI's presence in banking, showing a significant knowledge gap. This reflects the need for banks to proactively educate their customers about the artificial intelligence solutions being used—such as chat bots, fraud detection systems, or automated recommendations—to ensure transparency and foster trust.

# **Usage of AI-Based Services**

The majority of participants reported using AI-powered features like chat bots, smart notifications, and personalized financial product suggestions. Among these, chat bots were the most frequently used, with over 78% of users indicating prior interaction. These tools are mostly utilized for basic queries, balance checks, or service requests. The data suggests a rising dependency on AI for real-time, low-complexity services, reflecting the growing convenience and speed associated with automation in customer service.

### Trust in artificial intelligence solutions

While 52% of respondents expressed trust in AI-based banking systems, a substantial 23% stated they distrusted such tools. The reasons behind this distrust included concerns about data privacy, errors in automated decisions, and lack of human touch. Another 25% of users were undecided, indicating uncertainty or limited exposure to AI services. These findings imply that while a majority are comfortable with AI, a significant portion remains cautious, likely due to past negative experiences or a general lack of understanding about how AI works in financial contexts.

#### **Customer Satisfaction Levels**

Customer satisfaction regarding AI banking services showed mixed outcomes. About 40% of the respondents were highly satisfied, citing benefits such as 24/7 availability, reduced waiting time, and quicker resolutions. However, around 25% reported dissatisfaction, primarily due to poor chatbot accuracy, lack of contextual understanding, and inability to resolve complex queries. This suggests that while AI delivers convenience, it often lacks the human qualities required to handle nuanced issues—highlighting a gap in emotional intelligence and conversational flexibility.

# Preferred Mode of Digital Banking

When asked about their preferred digital banking platform, 70% of users reported using mobile banking apps as their primary mode. This preference was especially high among younger users and working professionals, as mobile apps offer on-the-go convenience and streamlined features. Desktop banking was favored by 20% of respondents, often for detailed transactions or business use. Only 10% of users still relied on in-branch visits, showing a clear trend toward digital banking ecosystems, primarily driven by mobile-based AI features like real-time alerts and voice-assisted banking.

## **Suggestions and Feedback from Respondents**

Participants offered several constructive suggestions to improve AI-based banking experiences. Many users recommended enhancing Chabot responses with better natural language processing capabilities, enabling them to understand and resolve more complex issues. Others suggested a hybrid model—where initial queries are handled by AI and escalated to human agents if unresolved. Transparency in how personal data is used and clearer communication about AI's decision-making logic were also common themes. These suggestions underline the growing expectation for responsible, transparent, and user-friendly AI in banking.

## DISCUSSION

The data suggests that AI is gaining traction, particularly among younger, tech-literate users. However, gaps in awareness, trust, and satisfaction indicate the need for better customer education, transparency in AI operations, and continued human oversight. Mobile apps are the preferred medium, underlining the importance of mobile- optimized AI solutions in the banking ecosystem.

# Recommendations

- Provide simple and accessible explanations of artificial intelligence solutions to increase transparency.
- Develop feedback-based AI models that evolve with user behavior and preferences.
- Ensure ethical use of AI through regulatory frameworks.
- Implement hybrid models combining AI with human agents for complex service needs.

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# **CONCLUSION**

AI is playing a pivotal role in redefining customer engagement in the Indian banking sector. While adoption is increasing, user expectations for clarity, security, and personalized assistance are yet to be fully met. Financial institutions must address these concerns through transparent communication, inclusive digital literacy programs, and hybrid service approaches to foster trust and improve user satisfaction.

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