



IMPACT OF TECHNOLOGICAL ADVANCEMENTS ON FINANCIAL PRODUCTS OFFERED BY INDIAN BANKS

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ABSTRACT

Technological advancements have significantly transformed the Indian banking sector by reshaping the design, delivery, accessibility and efficiency of financial products and services. The emergence of digital banking, financial technology (FinTech), artificial intelligence (AI), blockchain, cloud computing, mobile banking and data analytics has accelerated innovation within public and private sector banks. Indian banks are increasingly adopting advanced technologies to enhance customer experience, improve operational efficiency, strengthen risk management and expand financial inclusion. Traditional banking products such as savings accounts, loans, insurance and investment services have evolved into digitally integrated financial solutions accessible through internet banking platforms, mobile applications, Unified Payments Interface (UPI) and digital wallets. The present study examines the impact of technological advancements on financial products offered by Indian banks with emphasis on digital payments, online lending, automated customer services, personalized banking and FinTech collaborations. The study is based on secondary data collected from reports of the Reserve Bank of India (RBI), research journals, banking publications and recent scholarly literature. The findings reveal that technological innovation has increased product diversification, customer convenience, transaction speed and banking penetration across rural and urban areas. The study further identifies that private sector banks have been more aggressive in adopting innovative technologies, whereas public sector banks have focused on large-scale digital inclusion initiatives. The research also highlights several challenges associated with technological transformation, including cybersecurity risks, digital frauds, data privacy concerns, operational vulnerabilities and digital literacy gaps among customers. Regulatory interventions by the Reserve Bank of India have played an important role in ensuring secure and sustainable digital banking growth. The study concludes that technological advancements have become a major driving force behind the modernization of financial products in Indian banking and are expected to further revolutionize banking services through AI-driven personalization, blockchain-enabled security and integrated digital financial ecosystems.

Keywords: Technological Advancement, Digital Banking, Financial Products, Indian Banks, FinTech, Artificial Intelligence, Financial Innovation

Introduction

The banking industry occupies a central position in the economic development of a nation by facilitating savings, investments, credit creation and financial intermediation. In India, the banking sector has experienced substantial transformation over the last three decades, particularly after the economic



liberalization reforms of 1991. One of the most influential factors responsible for this transformation has been technological advancement. Technology has not only changed the operational structure of banks but has also revolutionized the nature and delivery of financial products offered to customers.

Banking activities in India were limited to branch-based services such as deposit acceptance, cheque clearing, cash transactions and manual loan processing. Customers were required to visit bank branches physically for almost every banking transaction. However, the rapid development of information technology, internet connectivity, mobile communication and digital payment systems has dramatically altered the banking environment. Today, customers can access financial products and services anytime and anywhere through digital channels such as mobile banking applications, internet banking portals, automated teller machines (ATMs), Unified Payments Interface (UPI) and digital wallets. Technological innovation has emerged as one of the most significant drivers of modernization in the financial services sector. The Reserve Bank of India has acknowledged that financial services are witnessing revolutionary changes due to digital innovation, FinTech integration and technology-based financial solutions. Technological advancements have enabled banks to improve customer experience, operational efficiency, risk management systems and service delivery mechanisms. The Indian banking sector has increasingly adopted digital technologies such as artificial intelligence (AI), machine learning (ML), blockchain, robotic process automation (RPA), cloud computing, biometric authentication and big data analytics. These technologies have transformed traditional banking products into modern digital financial products capable of meeting dynamic customer expectations. Digital savings accounts, online fixed deposits, paperless loan approvals, AI-based chatbots, robo-advisory investment platforms, contactless payments and instant digital credit facilities are examples of technologically advanced financial products currently offered by Indian banks.

One of the most visible outcomes of technological advancement in Indian banking has been the growth of digital payment systems. The introduction of National Electronic Funds Transfer (NEFT), Real Time Gross Settlement (RTGS), Immediate Payment Service (IMPS) and Unified Payments Interface (UPI) has revolutionized payment mechanisms in India. UPI, in particular, has emerged as one of the world's fastest-growing real-time digital payment systems, enabling instant fund transfers through mobile devices. The widespread adoption of smartphones and internet services has further accelerated the growth of digital banking products among Indian consumers. Transformation is digital lending and online credit products. Earlier, loan processing involved extensive paperwork, physical verification and long approval periods. Technological innovation has significantly simplified lending procedures through digital onboarding, e-KYC verification, AI-based credit assessment and automated loan processing systems. Banks now provide instant personal loans, digital business loans and pre-approved credit products through online platforms and mobile applications. FinTech collaborations have further strengthened the efficiency and accessibility of digital lending services in India. Technological advancements have also enhanced customer relationship management within the banking sector. Artificial intelligence and machine learning are increasingly being used for personalized product recommendations, fraud detection, customer support services and predictive analytics. AI-powered chatbots and virtual assistants provide real-time customer support, reducing operational costs and improving customer satisfaction. Data analytics enables banks to understand customer preferences, spending behavior and risk profiles, thereby facilitating the development of customized financial products. The emergence of FinTech companies has intensified competition within the Indian financial system. FinTech firms collaborate with banks to provide innovative solutions related to payments,



lending, insurance, investment management and wealth advisory services. According to RBI reports, collaborations between banks, non-banking financial companies (NBFCs) and FinTech firms are reshaping financial product innovation and service delivery in India.

Public sector and private sector banks have responded differently to technological advancements. Private sector banks such as HDFC Bank, ICICI Bank and Axis Bank have aggressively adopted digital technologies and customer-centric innovations to maintain competitive advantage. Public sector banks, including State Bank of India and Bank of Baroda, have focused more on financial inclusion initiatives and large-scale digital outreach programs. The introduction of digital banking units, Jan Dhan Yojana accounts, Aadhaar-enabled services and mobile banking facilities has expanded banking accessibility across rural and semi-urban regions. Technological advancement has also contributed significantly to financial inclusion in India. Digital banking products have reduced geographical barriers and enabled banking access to underserved populations. Government initiatives such as Digital India, Pradhan Mantri Jan Dhan Yojana (PMJDY), Aadhaar integration and direct benefit transfer (DBT) systems have strengthened digital financial inclusion. RBI reports emphasize that technology-enabled financial services have improved the efficiency of public welfare distribution and expanded banking penetration among economically weaker sections.

Despite numerous benefits, technological transformation in banking also presents significant challenges. Cybersecurity threats, data breaches, digital frauds, operational risks and privacy concerns have increased with the expansion of digital financial products. The Reserve Bank of India has imposed stricter regulations and compliance requirements to ensure customer protection and digital security. Recent regulatory interventions against certain financial institutions due to technological and compliance deficiencies highlight the importance of robust IT infrastructure and governance systems in the banking sector. Digital literacy remains a major concern in India, particularly in rural and economically weaker communities. Lack of awareness regarding digital banking operations and cyber fraud prevention creates barriers to effective utilization of digital financial products. Studies also indicate that while technological innovation improves convenience and efficiency, it may increase operational complexities and dependence on digital ecosystems. In the contemporary era, technological advancement is no longer an optional strategy for banks but a necessity for survival and growth. Indian banks are continuously investing in advanced technologies to improve customer engagement, enhance product innovation, reduce operational costs and strengthen market competitiveness. Emerging technologies such as blockchain, open banking, embedded finance and AI-driven banking solutions are expected to further transform the financial landscape in the coming years. The present study seeks to analyze the impact of technological advancements on financial products offered by Indian banks. The study aims to evaluate the role of technology in financial product innovation, customer convenience, operational efficiency, financial inclusion and risk management within the Indian banking system.

Review of Literature

The relationship between technological advancement and financial product innovation in the banking sector has attracted considerable attention from researchers, policymakers and financial institutions across the world. Existing literature indicates that technology has transformed banking operations, customer service mechanisms, payment systems, lending practices and financial product diversification. The following review critically examines major studies related to technological advancements and financial products in the banking industry with particular focus on the Indian banking sector.



The Reserve Bank of India, in its report on FinTech and technological innovation, observed that digital transformation has become one of the most influential developments affecting the financial services sector globally. The report emphasized that technological innovation improves customer convenience, operational efficiency, competition and service quality within the banking sector. The RBI further noted that FinTech collaborations encourage banks to innovate and diversify financial products while also creating new regulatory and operational challenges. A study presented in the RBI's "Report on Currency and Finance 2023–24" examined the role of digitalization and financial innovation in India's banking system. The researchers argued that collaborations between banks, NBFCs, FinTech firms and BigTech companies have accelerated product and process innovation in financial services. The study found that adoption of AI, cloud computing and data analytics improved operational efficiency and enabled banks to provide personalized and technology-driven financial products. However, the study also highlighted concerns regarding cybersecurity, data privacy and regulatory compliance. RBI Bulletin article discussed the transformation of traditional banking into digital banking through technological innovation. According to the article, advancements in internet connectivity, mobile technology and digital payment infrastructure have enabled banks to offer anytime-anywhere banking services. The study particularly emphasized the importance of UPI, Aadhaar Enabled Payment Systems (AePS) and digital public infrastructure in promoting financial inclusion and digital financial products in India.

Abbasi and Weigand (2017) conducted a systematic literature review on digital financial services and firm performance. The study analyzed research related to digital banking products and concluded that technological advancements positively affect profitability, competitiveness and customer outreach in financial institutions. The authors observed that digital financial services reduce operational costs and increase customer accessibility. However, they also identified a research gap related to the long-term sustainability and risk management of digital financial products. Stefanelli, Manta and Toma (2022) examined digital financial services and open banking innovation. Their study argued that digital transformation has forced banks to reconsider traditional business models and adopt API-driven service ecosystems. The researchers emphasized that open banking enables integration between banks and third-party service providers, thereby improving product diversification and customer experience. However, the study also pointed out that increased outsourcing and digital dependency create operational and governance risks for banks. Luke Lee (2024) analyzed the role of digital platforms, machine learning and AI in enhancing financial inclusion. The study concluded that digital banks and alternative lenders improve accessibility to financial services for underserved populations. Machine learning and AI-based systems enable faster credit assessment, fraud detection and personalized financial recommendations. Nevertheless, the study highlighted serious concerns regarding algorithmic bias, customer data privacy and the need for balanced regulatory frameworks. Business Standard (2024) reported that technologies such as artificial intelligence, blockchain, robotic process automation and cloud computing are transforming the Indian Banking, Financial Services and Insurance (BFSI) sector. The article emphasized that these technologies enhance customer experience, operational efficiency and financial inclusion while simultaneously improving risk management capabilities.

Reuters (2024) highlighted the increasing investment by Indian banks in technological infrastructure and cybersecurity. The report indicated that Indian banks are allocating larger portions of their operating expenditure towards IT modernization due to regulatory scrutiny and rising digital transactions. The study



discussed how technological failures and system outages in some financial institutions exposed vulnerabilities in digital banking infrastructure, emphasizing the importance of secure technological ecosystems. Recent studies on digital lending and FinTech innovation have shown that technological advancements significantly improve credit accessibility and loan processing efficiency. Researchers have noted that AI-based underwriting systems, digital KYC verification and mobile lending applications reduce transaction time and improve customer convenience. However, several studies also warn against unethical lending practices, data exploitation and algorithmic discrimination in digital lending platforms. RBI's digital lending guidelines were introduced specifically to address such concerns and strengthen customer protection mechanisms. Studies related to RegTech and compliance automation indicate that advanced technologies improve governance, risk management and regulatory reporting within financial institutions. Researchers argue that automation of anti-money laundering (AML) checks, customer verification systems and fraud monitoring reduces compliance costs and enhances operational transparency. Furthermore, RegTech solutions facilitate expansion of low-cost digital financial products among underserved populations.

Several scholars have compared the technological adoption patterns of public and private sector banks in India. Existing literature generally suggests that private sector banks adopt digital technologies more rapidly due to higher competitive pressure and flexible organizational structures. Public sector banks, although slower in innovation, have played a crucial role in large-scale financial inclusion through government-supported digital banking initiatives. While previous studies provide valuable insights into digital transformation and financial innovation, most of them focus either on digital banking services or technological infrastructure individually. Limited research comprehensively examines the direct impact of technological advancements on the diversification and evolution of financial products offered by Indian banks. Moreover, comparative discussions regarding public and private sector approaches toward technological product innovation remain relatively underexplored. The present study attempts to bridge this gap by critically analyzing how technological advancements influence the development, accessibility, efficiency and customer acceptance of financial products in Indian banks. It also seeks to examine the opportunities and challenges associated with technology-driven financial product innovation in the Indian banking system.

Research Objectives

1. To examine the impact of technological advancements on financial products offered by Indian banks.
2. To analyze the role of digital banking technologies in improving customer convenience and banking efficiency.
3. To compare technological adoption in public and private sector banks in India.
4. To study the contribution of FinTech and artificial intelligence in financial product innovation.
5. To identify challenges associated with technology-driven banking products in India.

Research Hypotheses

1. H01: Technological advancements do not significantly affect the growth of financial products offered by Indian banks.
2. H02: There is no significant difference between public and private sector banks in adopting technology-based financial products.
3. H03: Digital banking services do not significantly improve customer accessibility and satisfaction.



Research Methodology

The present study is descriptive and analytical in nature. The study is primarily based on secondary data collected from reliable and authentic sources such as Reserve Bank of India (RBI) reports, Annual reports of public and private sector banks, Research journals and scholarly articles, Government publications, Financial newspapers and online databases, Reports published by FinTech organizations. The study uses qualitative and comparative analysis to examine the impact of technological advancements on banking financial products in India. Relevant literature has been reviewed to understand recent developments in digital banking and financial innovation.

Technological Advancements in Indian Banking Sector

Technological advancement has transformed the Indian banking sector from a traditional branch-oriented system into a highly digitized and customer-centric ecosystem. Banks are increasingly integrating advanced technologies into their operational and financial product frameworks to improve service delivery, customer engagement and business efficiency.

A) Digital Banking

Digital banking refers to the use of internet-based platforms and mobile technologies to deliver banking services electronically. Indian banks now provide various digital financial products including Mobile banking applications, Internet banking services, Online account opening, Digital fixed deposits, Instant loan approvals, Online investment platforms. Digital banking has reduced dependence on physical branches and increased customer convenience significantly.

B) Unified Payments Interface (UPI)

UPI has revolutionized digital payments in India by enabling instant real-time fund transfers through smartphones. UPI-based applications such as Google Pay, PhonePe, Paytm and BHIM have transformed customer payment behavior. Benefits of UPI include Faster transactions, Low transaction cost, Interoperability, Increased financial inclusion, Reduction in cash dependency, UPI growth has encouraged banks to develop more digital payment-oriented financial products.

C) Artificial Intelligence (AI) and Machine Learning

Artificial intelligence is increasingly used by banks for Customer service chatbots, Fraud detection, Credit scoring, Risk assessment, Personalized financial recommendations. Machine learning helps banks analyze customer behavior and create customized financial products according to customer needs and preferences.

D) Blockchain Technology

Blockchain technology enhances security, transparency and efficiency in banking transactions. Indian banks are exploring blockchain applications for Secure payments, Smart contracts, Trade finance, Cross-border transactions, Digital identity verification. Blockchain reduces operational costs and minimizes fraud risks in financial services.

E) Cloud Computing and Big Data Analytics

Cloud computing allows banks to store and process large amounts of customer data efficiently. Big data analytics enables banks to Understand customer behavior, Predict financial trends, Improve product



design, Enhance risk management systems. These technologies support data-driven decision-making and financial product innovation.

Impact of Technological Advancements on Financial Products

Technological advancements have significantly transformed the financial products offered by Indian banks by improving accessibility, efficiency, speed and customer convenience. Traditional banking products such as savings accounts, loans, deposits and payment services have evolved into digitally integrated financial solutions through mobile banking, internet banking, artificial intelligence and FinTech innovations. Technologies like Unified Payments Interface (UPI), blockchain, cloud computing and data analytics have enabled banks to provide secure, real-time and personalized financial services to customers. Digital lending platforms and AI-based credit assessment systems have simplified loan approval processes and enhanced financial inclusion. Furthermore, technological innovation has reduced operational costs, increased transparency and strengthened customer engagement in banking services. However, rapid technological growth has also created challenges related to cybersecurity, data privacy and digital fraud management. Overall, technological advancements have become a major driving force behind modernization and innovation in the Indian banking sector.

A) Transformation of Deposit Products

Traditional deposit products such as savings accounts and fixed deposits have evolved into digital financial products. Customers can now open accounts online, Access e-passbooks, Manage deposits through mobile apps, Invest in digital recurring deposits. Digital banking has improved accessibility and customer convenience.

B) Digital Lending and Credit Products

Technology has transformed lending procedures by reducing paperwork and processing time. Banks now provide Instant personal loans, Online education loans, Digital MSME financing, AI-based credit approvals. Digital lending has improved financial accessibility, especially for small businesses and young customers.

C) Growth of Digital Payment Products

Digital payment products have expanded rapidly due to technological advancements. Banks now offer UPI services, QR-code payments, Mobile wallets, Contactless debit and credit cards. These innovations have accelerated India's transition towards a cashless economy.

D) Investment and Wealth Management Products

Banks increasingly offer digital investment products such as Online mutual fund platforms, Robo-advisory services, Digital trading accounts, Insurance integration services. Technology enables customers to manage investments conveniently through banking applications.

E) Financial Inclusion

Technology-driven financial products have improved banking penetration in rural and underserved areas. Government initiatives such as PM Jan Dhan Yojana, Aadhaar-enabled payment systems, Direct Benefit Transfer (DBT) have enhanced financial inclusion through digital banking infrastructure.



Comparative Analysis: Public vs Private Sector Banks

Basis	Public Sector Banks	Private Sector Banks
Technological Adoption	Moderate and policy-driven	Rapid and innovation-driven
Customer Service Innovation	Improving gradually	Highly customer-centric
Financial Inclusion	Strong rural outreach	More urban-focused
Digital Product Diversification	Moderate	Extensive
AI and FinTech Integration	Limited but increasing	Highly integrated
Operational Flexibility	Comparatively lower	Higher flexibility
Market Competition Strategy	Service expansion	Innovation and profitability

Challenges of Technological Advancements in Banking

Although technological advancements have transformed the Indian banking sector by improving efficiency, accessibility and customer convenience, they have also created several significant challenges. One of the major concerns is cybersecurity risk. The rapid growth of digital banking transactions has increased the exposure of banks to cyberattacks, online frauds, data breaches, phishing activities and identity theft. As banking systems become more digitally interconnected, financial institutions must continuously strengthen their cybersecurity infrastructure and adopt advanced security mechanisms to protect customer information and maintain trust in digital financial services. Another important challenge is the issue of digital literacy. A large section of the population, particularly in rural and semi-urban areas, still lacks adequate awareness regarding digital banking operations, cybersecurity practices and safe online transaction methods. Limited technological knowledge often prevents customers from fully utilizing digital financial products and also makes them vulnerable to cyber frauds. Therefore, digital literacy remains a major barrier to effective financial inclusion in India. Data privacy is also a critical concern in technology-driven banking systems. Banks collect and store massive volumes of customer data for digital transactions, personalized services and financial analytics. However, this creates risks related to unauthorized access, misuse of personal information and privacy violations. In order to protect customer interests, banks must strictly comply with data protection regulations and implement secure data management systems. Excessive dependence on technology further increases operational vulnerability within the banking sector. Technical failures, server breakdowns, software errors and network outages can disrupt banking operations and negatively affect customer services. Such disruptions may lead to financial losses, reduced customer confidence and reputational damage for banks. Rapid technological innovation creates regulatory and compliance challenges for financial institutions and policymakers. Emerging areas such as digital lending, artificial intelligence governance, blockchain applications and FinTech operations require continuous regulatory monitoring and policy updates. Regulatory authorities must develop strong frameworks to ensure transparency, consumer protection, cybersecurity and ethical use of technology in banking operations.

Findings of the Study

The study reveals that technological advancements have significantly transformed the financial products offered by Indian banks. Digital banking platforms, mobile banking applications and UPI-based payment systems have improved transaction speed, operational efficiency and customer convenience. Private sector banks have adopted advanced technologies more aggressively compared to public sector banks,



especially in areas such as artificial intelligence, digital customer engagement and personalized banking products. However, public sector banks continue to play a vital role in promoting financial inclusion through large-scale digital initiatives and rural banking outreach programs. The study further indicates that technologies such as artificial intelligence, machine learning and data analytics have enhanced customer service quality, fraud detection systems and product personalization. FinTech collaborations have accelerated innovation in digital payments, online lending and investment-related financial products. Moreover, digital lending platforms have improved credit accessibility and reduced loan processing time significantly. Despite these benefits, cybersecurity threats, digital frauds, operational vulnerabilities and data privacy concerns remain major challenges in technology-driven banking systems. Overall, the findings suggest that technological innovation has become a key driver of modernization, competitiveness and financial product diversification in the Indian banking sector.

Conclusion

Technological advancement has emerged as a transformative force in the Indian banking sector. It has significantly changed the nature, accessibility, efficiency and delivery of financial products offered by banks. Technologies such as artificial intelligence, mobile banking, blockchain, cloud computing and digital payment systems have modernized banking operations and improved customer experiences. The study reveals that both public and private sector banks have benefited from technological innovation, although their approaches differ. Private sector banks focus more on innovation, digital customer engagement and advanced financial products, whereas public sector banks emphasize financial inclusion and large-scale banking accessibility. The expansion of UPI, internet banking, digital lending and AI-driven services demonstrates the growing importance of technology in financial product development. The growth of technology-driven financial products also creates challenges related to cybersecurity, privacy protection, digital literacy and regulatory compliance. Therefore, sustainable technological growth in banking requires strong governance systems, secure digital infrastructure and customer awareness programs. Technological advancements will continue to shape the future of Indian banking by enhancing innovation, operational efficiency, financial inclusion and customer-centric financial ecosystems. Banks that successfully adapt to emerging technologies while ensuring security and regulatory compliance will remain competitive in the evolving financial landscape.

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