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# The Current Scenario of Fintech Services in India: Overview and Challenges

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#### **ABSTRACT**

FINTECH or Financial Technology has brought a revolution in terms of finance and technology in India in recent years. Though the idea of Fintech has been around since a long time but its growth in India has been tremendous in the last 5 to 10 years. With the growth of smart phone users in India there has been a rise of digital or cashless banking as well. The recent initiatives by the Government around demonetization and introduction of cashless services such BHIM has further changed the scenario of financial transactions in India. Not only the urban dwellers but the people living in rural areas are also availing the facility of Fintech. However, with the success of Fintech there are certain issues and challenges as well. Hence, this paper is a humble attempt to showcase the current scenario of Fintech services in India. It will further highlight the issues and challenges that the Fintech services has been facing in India.

Keywords: Fintech, Finance, Technology, India

# 1.0 INTRODUCTION

Fintech services in India is on the rise today. It certainly has created a buzz at the international scenario is well. Today India is considered as one of the most advanced countries with regards to the usage if Fintech services.

Financial Technology (Fintech) integrates technology into financial services to enhance efficiency, accessibility, and innovation. The adoption of fintech has witnessed significant growth in recent years, with 64% of consumers across 27 countries using fintech solutions, according to EY's Global Fintech Index (2019). India ranks second globally in fintech adoption, after China.

Mobile payments are a key fintech innovation, enabling electronic payments via mobile devices such as smartphones, tablets, and smartwatches. Mobile wallets, digital wallets, and bank cards facilitate convenient, secure, and fast transactions. Examples include UPI, IMPS, and mobile banking apps. Mobile payments have transformed the way people make transactions, eliminating the need for physical currency and cards.

Cloud computing is another significant fintech innovation, enabling remote data storage and processing. This enhances banking operations and scalability while reducing infrastructure costs and increasing efficiency. Cloud-based banking platforms and Software-as-a-Service (SaaS) models are examples of cloud computing in fintech. Cloud computing enables banks to provide services more efficiently and effectively.

Artificial intelligence (AI) is revolutionizing fintech by providing personalized banking services and recommendations. AI improves functionality and cost efficiency, enhancing customer experience and



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support. Chatbots and virtual assistants use AI to provide 24/7 customer support, while predictive analytics help banks identify potential risks and opportunities.

Biometric technology is used to secure individual financial profiles and prevent fraud. Facial recognition, retina scanning, and fingerprint mapping are examples of biometric authentication methods. Biometrics strengthen banking infrastructure and compliance, ensuring that financial transactions are secure and trustworthy.

Blockchain technology is a decentralized, digital ledger that securely stores data across a network of computers. Its key features include decentralization, immutability, transparency, and consensus. Blockchain applications in fintech include secure payments and settlements, cross-border transactions, digital identity verification, and smart contracts. Blockchain benefits include enhanced security and integrity, increased transparency and traceability, improved efficiency and speed, and reduced counterparty risk. Blockchain technology has the potential to transform the financial industry by providing a secure, transparent, and efficient way to conduct transactions.

These fintech innovations have transformed the financial landscape, providing convenience, security, and efficiency. As fintech continues to evolve, addressing challenges and regulatory uncertainties will be crucial for sustained growth and innovation.

#### 2.0 STATEMENT OF THE PROBLEM

When it comes to Fintech services in India, it certainly has created a sense of feasibility among the normal people as well as people belonging to other sectors such as business, banking, services, agriculture etc. It in fact, has proved to be a very successful venture as it has brought a sense of conventionality with it comes to business transactions or any other forms of transactions. In recent years, with the rise of digitization and the increasing adoption of smartphones, fintech is becoming a smart driver of economic growth and financial inclusion. However, with success it has brought a set of issues and challenges as well.

One of the major challenges is the issue of lack of proper regulations and guidelines. Additionally, there are only problems such as lack of privacy and data breach. It has also become a problem for the people belonging to the geriatric section and those who lack technical education; especially those who reside in rural areas.

Hence, to address these problems the study aims to find out the major issues and challenges that the Indians have been facing regarding the usage of Fintech services.

#### 3.0 OBJECTIVE OF THE STUDY

Based upon the statement of problem below mentioned are the objectives of this paper:

- 1. To showcase to present scenario of Fintech services in India along with its brief history.
- 2. As already mentioned in the statement of problem, India has been facing various issues and challenges with regards to Fintech services. Hence, the second objective of this paper is to investigate and examine the problems of Fintech services in India.

3.

## 4.0 RESEARCH METHODOLOGY

The present study is a qualitative study. The study will be based upon various secondary data such as research articles, research papers, various governmental as well as non-governmental reports and other internet sources and websites.



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#### 5.0 MAJOR FINDINGS

Below presented are the major findings of the present study. The findings which are based on secondary data are presented under different headings.

#### 5.1 CURRENT SCENARIO OF FINTECH SERVICES IN INDIA

## 5.1.1 Brief History of Fintech Services in India

The history of fintech in India dates back to the early 1990s, when banks began integrating technology to enhance their operations and services. This era marked a significant shift in the financial landscape, with ongoing developments that would revolutionize how financial institutions functioned. The Reserve Bank of India (RBI) played a key role in promoting electronic payment systems, which led to the introduction of ATMs, electronic fund transfers, and core banking solutions. These innovations laid the foundation for the sector's digital transformation, improving efficiency and convenience for both banks and their customers. The transition from manual to automated processes during this period made banking services faster, more reliable, and more accessible, enabling banks to streamline their operations and provide better customer service.

In the late 1990s and early 2000s, internet banking started gaining traction among the general public. Banks introduced online services that allowed customers to perform transactions such as fund transfers, bill payments, and account management from the comfort of their homes via the internet. This marked a new era in banking, where convenience and accessibility became paramount. The rise of internet banking also pushed banks to create more user-friendly interfaces and implement stronger security measures to protect customer data and transactions, further driving the adoption of digital banking. As internet usage grew, so did the demand for advanced digital services, prompting banks to continuously improve their platforms and expand their online offerings. This period saw rapid technological progress and a shift in consumer behavior, with more people embracing the convenience of online banking. The ongoing evolution of fintech in India is largely due to the persistent innovation and adaptability of financial institutions, making the sector increasingly dynamic and accessible to a wider audience.

The growth and expansion of fintech in India gained momentum in the mid-2000s as mobile phones became increasingly widespread, allowing mobile banking to rise in popularity. Banks swiftly capitalized on this trend, offering a range of mobile banking services that enabled customers to manage accounts, check balances, transfer funds, and perform financial transactions on the go, anytime and anywhere. This period also saw the emergence of key payment gateways like CCAvenue and BillDesk, which played a crucial role in facilitating online payments for both businesses and consumers. These gateways provided seamless integration with merchant websites, ensuring secure transactions and building user trust, which significantly boosted the burgeoning e-commerce sector.

The 2010s marked a transformative era for India's fintech industry, with the rapid rise of numerous fintech startups. Companies like Paytm, MobiKwik, and FreeCharge pioneered innovative digital wallets that allowed users to store money electronically and make effortless payments across various services. These digital wallets quickly gained widespread popularity, especially for mobile recharges, utility bill payments, and online shopping, signalling a major shift in consumer behavior towards digital financial solutions. The convenience and security offered by these wallets encouraged more people to adopt cashless transactions, contributing to the growth of a digital economy.

A major turning point during this period was the introduction of the Unified Payments Interface (UPI) by the National Payments Corporation of India (NPCI) in 2016. UPI revolutionized the payments ecosystem



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by enabling instant, real-time inter-bank transfers via mobile phones. Its open architecture created a conducive environment for the growth of numerous fintech startups, which offered innovative payment solutions to both consumers and businesses. UPI's simplicity and efficiency led to its widespread adoption, solidifying its role as a cornerstone of India's digital payment infrastructure.

Government initiatives also played a critical role in the expansion of fintech in India. Programs such as the Pradhan Mantri Jan Dhan Yojana were launched to provide banking services to the unbanked population, significantly advancing financial inclusion. The initiative aimed to ensure that every household had access to at least one bank account, bringing millions into the formal financial system. Additionally, the introduction of the Aadhaar biometric identification system streamlined Know Your Customer (KYC) processes, making financial services more accessible and efficient across diverse demographics. Aadhaar's integration with financial services simplified account opening, reduced fraud, and enhanced the security of financial transactions.

In the late 2010s and early 2020s, India's financial sector experienced significant transformations with the emergence of neobanks—digital-only banks that operate without physical branches. Neobanks like Niyo, Jupiter, and Fi focused on enhancing user experience by offering innovative features aimed at tech-savvy customers. These banks provided seamless online banking services, advanced mobile apps, and personalized financial advice, setting new benchmarks for customer-centric, technologically driven banking solutions.

During this time, digital lending also experienced substantial growth, reshaping the lending landscape. Fintech companies such as Lendingkart, Capital Float, and KreditBee simplified and accelerated the process of obtaining credit for individuals and small businesses. By leveraging advanced algorithms and data analytics to assess creditworthiness, these firms streamlined loan approvals, making them faster and more accessible. This not only democratized access to credit but also supported the expansion of small and medium-sized enterprises (SMEs) throughout the country.

To encourage innovation in the expanding fintech sector while maintaining consumer protection and financial stability, the Reserve Bank of India (RBI) introduced a regulatory sandbox framework. This initiative allowed fintech companies to test new products and services in a controlled environment before a broader launch. The regulatory sandbox provided a safe space for experimentation, reducing the risks associated with emerging financial technologies and promoting responsible innovation, ultimately contributing to a more dynamic and secure financial ecosystem.

Interest in cryptocurrency and blockchain technology also surged during this period, despite initial regulatory hurdles. Trading platforms like CoinDCX and WazirX gained widespread popularity among investors, signaling growing acceptance of digital assets in India. This heightened interest underscored the potential of blockchain technology to revolutionize traditional financial systems by offering greater transparency, security, and efficiency. The integration of blockchain technology into the digital economy marked a significant step towards modernizing the country's financial infrastructure.

In summary, the emergence of neobanks, the growth of digital lending, the establishment of regulatory sandboxes, and the growing appeal of cryptocurrencies and blockchain technology marked the late 2010s and early 2020s as a period of rapid innovation and transformation in India's financial sector. The financial sector in India has ample prospects for the growth of fintech, indicating a positive future for the industry. Even more creative solutions that will enhance the financial health of people and enterprises are anticipated as a result of this continuous evolution. The fintech industry is expected to



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achieve significant growth and become a crucial element of India's economic landscape due to the convergence of technology, regulatory backing, and market demand.

**Table 1.0 Evolution of Fintech Services in India** 

	Table 1.0 Evolution of Finteen Services in India		
Fintech 1.0	Several British Raj Banks in India were nationalized after gaining independence, as		
(1950	the economy overgrew and more people started using financial services.		
onwards)			
Fintech 2.0 (1980-2000)	<ul> <li>Banks started experimenting with Internet Banking in the 1980s; by the 1990s, they had mastered it and made it more appealing.</li> <li>ICICI Bank was the first online bank in India, although it only provided the most fundamental services, such as access to account information and internal transactions.         <ul> <li>India's first cash-withdrawing ATM was introduced by HSBC in Mumbai that year.</li> <li>The country's first credit card was distributed by the Central Bank of India in 1980.</li> <li>In October 1994, Standford Federal Credit Union created financial history when it became the first organization to provide its members</li> </ul> </li> </ul>		
	with access to financial services on the brand-new World Wide Web.  • Payment mechanisms advanced in response to the expansion of the internet when PayPal was founded in 1980		
Fintech (2000 onwards)	<ul> <li>The 2008 Global Financial Crisis facilitated the fintech sector's rapid expansion and widespread adoption.</li> <li>The Fintech Industry growth in India was fueled by the advent of the Google Wallet in 2011, PayPal in 2014 and Bitcoin v0.1 in 2009.</li> <li>The demonetization campaign had a significant impact on Fintech in 2016.</li> <li>Because traditional banks struggle to integrate their financial services with the SWIFT system, fintech companies collaborate to share the market.</li> <li>As a result of a quick uptake of Fintech, many Indian companies like Paytm, Phonepe, Mobikwik and Freecharge were established quickly.</li> <li>Because of this, more people will inevitably start using smartphones and eventually replace other methods of finances.</li> <li>In India, about 2000 fintech businesses are operating and over the preceding five years, more fintech start-ups have emerged.</li> <li>Due to this, even conventional banks must re-evaluate their strategies and embrace incorporating more Fintech into their offerings to appeal to tech-savvy customer base.</li> <li>Neo banks and digital banks were made more accessible to the Indian market because of BaaS.</li> <li>Traditional banks have embraced open banking and banking as a service (BaaS), providing external providers access to their clients' financial data.</li> </ul>		



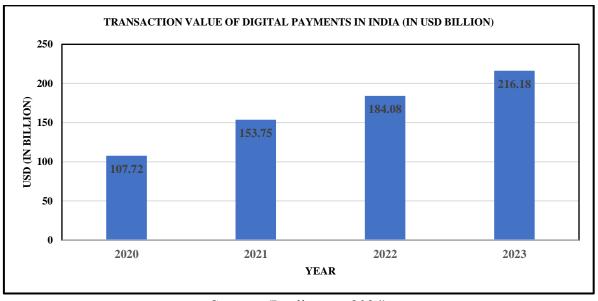
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 Crowdfunding platforms, mobile payments, robotic investment advisors, and online lenders are examples of how fintech technologies have fundamentally changed the financial sector.

Source: (Patel & Patil, July, 2023)

# 5.1.2 Fintech Market of India: A Glimpse

Today India has grown up to become a major fintech economies in the world with landmark innovations like paperless lending, mobile banking, secure payment gateways, mobile wallets and other concepts that are already shaping the new and digitised India. Today the Indian Fintech market is estimated at USD 111.14 Billion, and is expected to reach USD 421.48 Billion by 2029, growing at CAGR of 30.55% during the forecast period (2024-2029) (Inteligence, 2024). In fact, India emerged as a global fintech power and ranked third in terms of total fintech companies. As per various reports as of August 2023, there are over 3085 fintech companies in India. Many of these companies are in payment sector, followed by lending and wealth tech (Dubey, 2024).



**Source:** (Inteligence, 2024)

As India's fintech ecosystem expands, many companies are beginning to focus on niche sectors like agrifintech and Insurtech. The pace of development in this space has been rapid and continues to gain momentum. Below mentioned are some of the major fintech companies of India.

Table 2.0 Largest Public Fintech Companies of India by Markey Valuation

World Ranking	Name	Type of Company	Ticker	Market Cap (in USD)
52	Policybazar	Insurtech	POLICYBZR	9,210,592,627
123	Paytm	Infrastructure	PAYTM	5,319,980,030

Source: (cfte, 2024)

**Table 3.0 Largest Private Fintech Companies of India by Market Valuation** 

World Ranking	Name	Type of Company	Market Cap (in USD)
21	Polygon	Blockchain	20,000,000,000



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33	PhonePe	Paytech	12,000,000,000
55	Razorpay	Paytech	7,500,000,000
69	Cred	Paytech	6,400,000,000
86	Oxyzo	Paytech	5,000,000,000
100	Pine Labs	Paytech	4,500,000,000
109	Digit Insurance	Insurtech	4,000,000,000
127	Upstox	SaaS	3,500,000,000
142	PineLabs	Fintech	3,000,000,000
147	Groww	Weathtech	3,000,000,000
150	BharatPe	Paytech	2,900,000,000
183	CoinDCX	Cryptocurrency	2,200,000,000
221	Coinswitch Kuber	Cryptocurrency	1,900,000,000
243	Billdesk	Fintech	1,600,000,000
255	Onecard	Challenger Bank	1,500,000,000
256	Zeta	Challenger Bank	1,500,000,000
277	FPL Technologies	Paytech	1,400,000,000
285	CredAvenue	Challenger Bank	1,300,000,000
318	Acko	Insurtech	1,100,000,000
339	Open	Challenger Bank	1,000,000,000
357	InCred	Fintech	1,000,000,000
396	Slice	Paytech	1,000,000,000

Source: (cfte, 2024)

#### 5.1.3 Current Scenario of Fintech Services in India

India's fintech sector has seen incredible growth in recent years and is expected to reach \$150 billion by 2025. Widespread internet and smartphone use have fueled this expansion. Fintech companies are transforming financial services like banking, insurance, and digital transactions using cutting-edge technologies like AI and machine learning. This has made financial services accessible to millions of underserved Indians. Government initiatives and digitalization have boosted fintech's popularity, impacting the global financial landscape. Fintech is now growing rapidly, revolutionizing the way India manages its finances.

Fintech has become a crucial part of India's financial system. People have eagerly adopted digitalization in their daily lives through digital payments, online investments, and insurance. Businesses also benefit from this technological advancement. The payment ecosystem has expanded, offering secure, innovative, and efficient payment methods.

Digital lending has grown significantly due to India's resilient market, adaptability, and consumers embracing cutting-edge technologies. Over five years, digital lending has attracted over \$9 billion in investments, with estimates predicting a \$515 billion market value by 2030.

India's fintech sector gained international recognition in 2022, driven by cross-border trade growth. With fintech playing a vital role in 2024, it's expected to expand significantly by 2025 and beyond.

Notably, India has the highest fintech adoption rate globally at 87%, surpassing the global average of 64%. This growth has attracted global fintech companies to establish bases in India, driving continued expansion



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The present scenario of fintech market in India is highlighted below.

#### • Fintech is now integral to India's financial system

Fintech has become an integral part of India's financial system, revolutionizing the way financial services are delivered and accessed. With widespread adoption of digital payments, lending, and banking solutions, fintech has enhanced financial inclusion, increased efficiency, and convenience, and improved access to credit. The Reserve Bank of India's supportive regulatory framework has encouraged innovation, enabling fintech firms to develop user-friendly interfaces and expand services to underserved segments. As a result, over 100 million Indians now use fintech services, with Unified Payments Interface (UPI) transactions exceeding 1 billion monthly. Digital lending platforms have disbursed millions of loans, and neobanks offer innovative banking solutions. Overall, fintech's integration has transformed India's financial landscape, making services more accessible, efficient, and inclusive, and contributing to the country's economic growth.

## • Digital payments, investments, and insurance are increasingly popular

Digital payments, investments, and insurance have gained immense popularity in India, transforming the financial landscape. Digital payments, fueled by platforms like UPI, mobile wallets, and online banking, have made transactions faster, convenient, and secure. Investments have become more accessible through digital platforms, allowing users to buy and sell stocks, mutual funds, and other securities online. Additionally, digital insurance platforms offer a range of policies, enabling customers to compare and purchase coverage effortlessly. This shift to digital finance has been driven by factors such as increasing smartphone penetration, improving digital literacy, and government initiatives promoting financial inclusion. As a result, millions of Indians are now embracing digital financial services.

## • Digital lending has grown significantly, with \$9 billion+ invested

Digital lending in India has witnessed explosive growth, with investments surpassing \$9 billion, transforming the credit landscape. This surge is driven by fintech platforms that leverage advanced data analytics, AI-powered risk assessment, and seamless user experiences to provide instant loans to individuals and small businesses. Digital lenders have expanded credit access to underserved segments, including MSMEs, self-employed individuals, and those with limited credit history. The ease of application, rapid approval, and flexible repayment options have made digital lending an attractive alternative to traditional banking channels. Key players like Lendingkart, Capital Float, and KreditBee have pioneered this space, with many more entrants emerging. As a result, digital lending has democratized access to credit, boosted financial inclusion, and contributed significantly to India's economic growth.

# • India's fintech market expected to reach \$515 billion by 2030

India's fintech market is poised for remarkable growth, projected to reach \$515 billion by 2030, driven by increasing digital adoption, financial inclusion, and innovative technologies (Source: IMF Report 2022). According to a report by Nasscom, the Indian fintech industry is expected to grow at a CAGR of 22% between 2020-2030 (Nasscom Fintech Report 2022). Key segments driving this growth include digital payments (\$277 billion by 2025, as per RBI's Vision 2025), lending (\$150 billion by 2025, as per Credit Suisse Report 2022), and insurance (\$20 billion by 2025, as per KPMG Report 2022). The growth will be fueled by factors such as increasing smartphone penetration (950 million+ users by 2025, as per TRAI), government initiatives (e.g., Digital India, Jan Dhan Yojana), and rising demand for digital financial services (BCG Report, 2022).

## • Cross-border trade boosted international recognition

India's fintech sector has garnered international recognition, bolstered by its thriving cross-border trade.



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The country's digital payment systems, such as UPI and RuPay, have gained global acceptance, with partnerships in countries like Singapore, Bhutan, and the UAE. Indian fintech companies, including Paytm, PhonePe, and MobiKwik, have expanded their services internationally, facilitating seamless cross-border transactions. Additionally, initiatives like the India-Singapore FinTech Cooperation Agreement and the ASEAN-India Fintech Partnership have strengthened collaborations and knowledge sharing. This increased global presence has earned India a spot among the top fintech hubs worldwide, attracting foreign investments and talent, and cementing its position as a leader in digital financial innovation.

## • India leads global fintech adoption at 87%

India has emerged as a global leader in fintech adoption, with an impressive 87% of its population using fintech services, surpassing countries like China (77%), UK (71%), and US (69%) (Source: EY's 2022 Global Fintech Adoption Index). This remarkable growth is driven by India's digital payment revolution, fueled by initiatives like UPI, Aadhaar-enabled payments, and mobile wallets. According to a report by Nasscom, India's fintech market is expected to reach \$1 trillion by 2030, with digital payments accounting for 50% of the market share (Nasscom Fintech Report 2022). The country's favorable regulatory environment, government support, and increasing smartphone penetration (950 million+ users by 2025, as per TRAI) have contributed to this success. India's fintech adoption rate is highest among emerging markets, with 73% of users adopting fintech for transactions, 55% for savings, and 46% for insurance (EY's 2022 Global Fintech Adoption Index).

## • Global fintech companies are setting up bases in India

Global fintech companies are increasingly setting up bases in India, drawn by the country's thriving fintech ecosystem, large consumer market, and favorable regulatory environment. Giants like PayPal, Google Pay, and Amazon Pay have already established presence in India, while others like Stripe, Square, and Revolut are expanding their operations (Source: Economic Times, "Global Fintech Firms Eye India"). According to a report by KPMG, foreign investment in Indian fintech startups grew 3.5 times to \$2.7 billion in 2022 (KPMG Fintech Report 2022). India's fintech hub, Bengaluru, has emerged as a preferred destination, with 40% of global fintech companies setting up offices there (Source: Nasscom Fintech Report 2022). The government's supportive policies, such as the Reserve Bank of India's (RBI) regulatory sandbox, have encouraged innovation and collaboration.

The FinTech industry is poised for significant growth in 2024, building on its momentum from 2022. Innovation and collaboration among banks will drive this expansion. Banking as a Service (BaaS) has emerged as a crucial component, enabling seamless bank account switching.

Neobanks have gained popularity, with investment expected to reach \$215 billion by 2023 (EY analysis). India's young working population values personalized financial solutions from neo-banks equally to traditional banks. As time passes, more banks and consumers will partner with neo-banks.

India's FinTech market is growing rapidly, driven by digital payments and financial services adoption. By 2025, the market is projected to reach \$150-160 billion, with a 22% CAGR (NASSCOM report). The COVID-19 pandemic accelerated digital payments adoption, and regulatory initiatives like RBI's sandbox and NPCI's UPI drive innovation.

Technological advancements have benefited consumers immensely. FinTech simplified payments and credit access. Rising digital use and government initiatives promote digital payments, offering ample room for innovation and expansion.

Apart from the above mentioned different Indian sectors are working in various ways for the development of fintech market in India. Below mentioned are the contributions of these sectors.



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#### Government

Some of the initiatives taken up by the Government of India with regards to fintech services are as follows;

- The Start-up India initiative launched by the Government of India in January 2016 includes USD 1.5 Billion for startups.
- Jan Dhan Yojana added over 200 million unbanked individuals into the banking sector.
- Aadhar had been extended for pension, provident fund and the Jan Dhan Yojana.
- Tax rebates for merchant accepting more than 50 percent of their transactions digitally.
- 80 percent rebates on the patent cost for startups.
- Income tax exemption for startups for first three years.
- Exemption on capital gains tax for investment in unlisted companies for longer than 24 months.
- Surcharge on online and card payments for availing of government services proposed to be withdrawn by the Ministry of Finance.
- In India, RBI has been instrumental in enabling the development of fintech sector and espousing a cautious approach in addressing concerns around consumer protection and law enforcements. The key objective of the regulator has been around creating an environment for unhindered innovations by fintech, expanding the reach of banking services for unbanked population, regulating an efficient electronic payment and providing alternative options to the consumers (KPMG, 2016).

#### Investors

Fintech investors in India have grown manifold. India has lesser number of angel investors (about 1800 angel investors in 2016) as compared to 3,00,000 in the U.S. However, India is witnessing increasing interest level in startup funding. Investors are coming to terms that fintech is more than just payment technology and investor interest is beginning to manifest itself in a variety of sub-segments such as investing, lending, wealth management, credit reporting among others (KPMG, 2016).

## Technology Vendors

A few technology vendors involved in developing financial technology propositions in the following focus areas:

- IBM is working with the Hyperledger programme in association with Linux Foundation to develop blockchain-based solutions.
- Wipro set-aside USD 1000 million VC fund in 2014 to invest in start-ups to join the league of tech vendor investors such as Tech Mahindra and Persistent Systems.
- A leading IT company has committed USD 250 million 'Innovate in India Fund' to support & incubate Indian start-ups.
- Microsoft Ventures enables many early stage fintech start-ups in scaling up fast through their bespoke ScaleUP and HiPO programs as part of their umbrella accelerate initiatives (KPMG, 2016).

### • Financial Institutions

The fintech industry's emergence is having a big impact on the BFSI community, which includes banks, NBFCs, and other organizations. But instead of seeing fintech as a disruptor, the established players now see it as an enabler. Big banks are using the startup environment to develop partnerships and foster growth on a range of platforms, including online client acquisition, investment intermediation, and wallets. In addition to creating the platforms that these start-ups need to succeed, they are also starting to invest in them.

In order to tackle the complex effects of this increasing disruption, the BFSI incumbents in India are imp-



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lementing a four-pronged approach:

## **Driven by investment**

The BFSI industry is preparing for funding-based and acquisition-based strategies to expand its footprint in the nascent fintech market. For instance, fintech-focused accelerator programs have been introduced by Citi Bank, Barclays, and Goldman Sachs.

# Partnership-based

Banks with a coordinated go-to-market strategy are partnering with fintech product companies (in point-of-sale hardware, credit agreements, and social lending) to meet the immediate needs of consumers in the digital age. For instance, SBI and Ezetap have partnered to offer mobile point-of-sale devices throughout India 14 and Bank of India provides a Paynimo-powered wallet 15 through Tech Process.

#### **Market-Driven**

Many incumbents are expanding their value chain with rival offerings and use their own distribution and clientele in order to combat the consistent challenge posed by venture-backed fintech companies.

#### Collaboration-driven

Establishing, running, or funding centers of excellence and fintech hubs is a great way to gain insight into how up-and-coming fintech companies operate and to develop talent for a competitive edge in the future (KPMG, 2016).

#### • Users

Indian customers have shown unexpectedly fast rise of adoption to Fintech offerings. Decades of usage behaviour fixated on cash, branch banking and relationship-driven service expectations are being fast replaced with larger ticket size of cashless transactions, full-suite mobile banking and customized advice and service irrespective of location, language and grade classifications (KPMG, 2016).

## • Universities and Research Institutions

For a successful innovative ecosystem, academic bodies need to build entrepreneurial mindshare in India's young technical talent. While individual entrepreneurship cells across Indian universities exist, they are largely student managed and need a larger backing from the administration to make an impact. The leading institutions in India have consistently led the administration and management led initiatives, setting up events, competitions and courses. Example:

- IIT Roorkee has launched Global Entrepreneur Conclave to build entrepreneurial skills along with academic competence of technology in students.
- IIT Delhi is organizing Open house 2016 to promote innovative research and product development projects.
- BITS Pilani launched SPARK initiative to enable angel funding (KPMG, 2016).

#### 5.2 ISSUES AND CHALLENGES

Despite the promising outlook, the Indian fintech industry faces several challenges that need to be addressed to ensure sustained growth and development. These challenges range from regulatory uncertainties to operational complexities, and from security concerns to financial hurdles.

Some of the major issues and challenges that the Indian fintech Industry has been facing are as follows:

# **5.2.1 Regulatory Challenges**

1. Lack of clear regulations and guidelines: India's fintech regulatory framework is still evolving and lacks clarity, making it difficult for companies to navigate.



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- 2. Overlapping regulatory bodies: Multiple regulatory bodies (RBI, SEBI, IRDAI) oversee different aspects of fintech, causing confusion and overlap.
- 3. Compliance with AML/KYC norms: Fintech companies must comply with strict anti-money laundering and know-your-customer regulations.
- 4. Data privacy and protection: Ensuring data security and protecting customer information is crucial.

# **5.2.2 Security Concerns**

- 1. Data breaches and cyber-attacks: Fintech companies are vulnerable to cyber threats, compromising sensitive customer data.
- 2. Fraudulent transactions and phishing scams: Fintech platforms are susceptible to fraud and phishing attacks.
- 3. Insufficient encryption and secure data storage: Inadequate data protection measures put customer information at risk.
- 4. Vulnerabilities in mobile and online platforms: Fintech platforms must ensure secure transactions and data storage.

# **5.2.3** Infrastructure Challenges

- 1. Limited digital literacy: Many Indians lack basic digital skills, hindering fintech adoption.
- 2. Inadequate internet penetration: Limited internet access in rural areas restricts fintech reach.
- 3. Outdated banking infrastructure: Legacy banking systems hinder seamless integration with fintech solutions.
- 4. Limited access to reliable payment systems: Inconsistent payment infrastructure affects fintech operations.

# 5.2.4 Competition and Market Challenges

- 1. Intense competition: Traditional banks, new entrants, and global fintech players compete for market share.
- 2. High customer acquisition costs: Attracting and retaining customers is expensive.
- 3. Difficulty in scaling business models: Fintech companies struggle to scale operations while maintaining profitability.
- 4. Competition from global fintech players: Indian fintech companies face competition from established global players.

# **5.2.5 Operational Challenges**

- 1. Integration with existing banking systems: Fintech companies must integrate with legacy banking infrastructure.
- 2. Managing risks and credit scoring: Fintech lenders face challenges in assessing creditworthiness.
- 3. Customer support and dispute resolution: Providing effective customer support is crucial.
- 4. Maintaining scalability and reliability: Fintech platforms must ensure seamless operations.

## **5.2.6 Financial Challenges**

- 1. High operational costs: Fintech companies incur significant operational expenses.
- 2. Limited access to funding and capital: Fintech startups face funding challenges.
- 3. Managing currency fluctuations and exchange rates: Fintech companies must navigate currency risks.
- 4. Pressure to maintain profitability: Fintech companies face pressure to remain profitable.

## **5.2.7 Other Challenges**

1. Talent acquisition and retention: Attracting and retaining skilled professionals is challenging.



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- 2. Managing partnerships and collaborations: Fintech companies must navigate partnerships and collaborations.
- 3. Adapting to changing consumer behaviour: Fintech companies must respond to evolving consumer preferences.
- 4. Balancing innovation with regulatory compliance: Fintech companies must innovate while ensuring regulatory compliance.

In conclusion, the Indian fintech industry's remarkable growth is hindered by regulatory uncertainties, security concerns, infrastructure limitations, competition, operational complexities, financial hurdles, and talent acquisition challenges. Addressing these challenges requires collaborative efforts from stakeholders, including clear regulatory frameworks, enhanced security measures, infrastructure development, increased digital literacy, and strategic partnerships. By overcoming these obstacles, India's fintech industry can unlock its full potential, drive financial inclusion, and significantly contribute to the country's economic growth, ultimately emerging as a global leader in financial innovation.

Addressing these challenges will be crucial for the sustained growth and development of the Indian fintech industry.

#### 6.0 CONCLUDING REMARKS

India's fintech revolution has reached a critical turning point, opening the doors to unparalleled financial freedom, technological innovation, and economic transformation. This shift is disrupting traditional financial models and positioning India as a leader in the global digital finance space. With a wave of creativity, driven by new technologies and entrepreneurial energy, the country's fintech industry is on a path to grow to an estimated \$1 trillion by 2025.

As this sector continues to grow, its effects will be felt across the economy—boosting growth, improving socio-economic outcomes, and raising India's global influence. Long-standing goals of financial inclusion are becoming a reality, closing the gap between the underserved and financial services. Collaboration between fintech companies, banks, and government agencies has created a dynamic ecosystem, smoothing regulatory processes and encouraging further innovation.

At the heart of this transformation are visionary leaders, entrepreneurs, and technology experts, all working together to drive growth and social progress. Their combined efforts are pushing India's fintech industry to new heights, solidifying the country's reputation as a hub for financial innovation. With each new achievement, India moves closer to its goal of becoming a fully digital society, where financial access is available to all.

In the end, Indias fintech story highlights the power of innovation and its potential to turn the country into a global leader in digital financial services. As the industry continues to evolve, India is positioned to become a financial excellence beacon, blazing the way to a brighterandmore afflue nt future, if stakeholders come together to harness this revolutionary force.

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