

### India to Become a Fintech Powerhouse

This editorial is based on "Lessons from India's fintech revolution" which was published in The Hindustan Times on 07/05/2024. The article brings into picture India's fintech revolution, which has enabled a direct shift to mobile-first financial solutions, bypassing traditional banking. While this model serves as a blueprint for emerging economies, addressing key challenges is crucial for global leadership.

For Prelims: India's fintech revolution, Public-private-driven mode, Core banking solutions, Pradhan Mantri Jan Dhan Yojana, Unified Payments Interface, Account Aggregator Framework, Digital India, JAM Trinity (Jan Dhan-Aadhaar-Mobile), MSMEs, Paytm Payments Bank, India's Digital Personal Data Protection Act

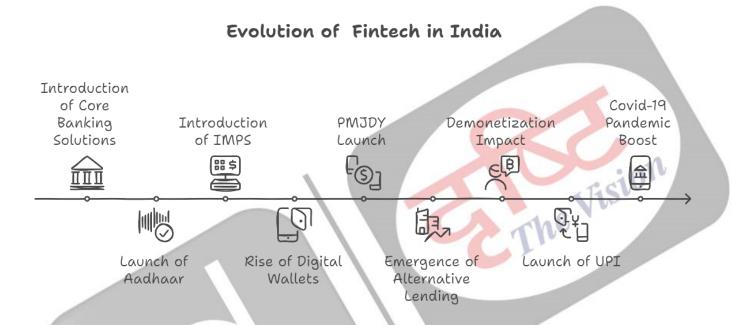
For Mains: Key Drivers of Fintech Growth in India, Key Issues Related to the Fintech Sector in India.

India's fintech revolution has bypassed traditional banking, enabling millions to adopt mobile-first financial solutions. Since 2009, NPCI has standardized inter-bank transfers, facilitating a direct transition to digital payments—distinct from the West's gradual evolution. This <u>public-private-driven model</u> serves as a blueprint for emerging economies. However, to establish itself as a **global fintech leader**, India must address key challenges that lie ahead.

## **How the Fintech Sector Evolved in India?**

- About: Fintech (Financial Technology) refers to the use of technology to deliver financial services efficiently.
  - India's fintech journey has been shaped by factors such as smartphone penetration, internet access, regulatory support, and digital payment innovations.
- Phases of Evolution
  - Early Phase (Pre-2000s)
    - The banking sector relied on <u>core banking solutions (CBS)</u> and IT-driven services.
    - Introduction of ATMs, NEFT, RTGS, and electronic clearing services.
  - Growth Phase (2000-2015)
    - **2009**: Launch of Aadhaar, enabling digital identity verification.
    - **2010**: Introduction of Immediate Payment Service (IMPS) by NPCI, facilitating real-time transactions.
    - 2013: Rise of digital wallets (e.g., Paytm) due to increasing e-commerce.
    - 2014: <u>Pradhan Mantri Jan Dhan Yojana (PMJDY)</u> launched, expanding financial inclusion.
    - 2015: Emergence of alternative lending platforms and digital NBFCs.
  - Acceleration Phase (2016-2020)
    - 2016: **Demonetization** accelerated digital transactions.

- **2016**: Launch of **Unified Payments Interface (UPI)** revolutionized real-time fund transfers.
  - Growth of fintech startups in lending, wealth management, and insurance (e.g., Zerodha, PolicyBazaar, PhonePe).
- Current Phase (2020-Present)
  - **Covid-19 Pandemic (2020)**: Boosted digital banking, contactless payments, and fintech adoption.
  - 2021: <u>Account Aggregator Framework</u> launched for seamless financial data sharing.
  - 2022: RBI introduced Digital Lending Guidelines to regulate online lending platforms.
  - Rise of **Buy Now, Pay Later (BNPL)** models and embedded finance solutions.
    - Growth of Rupay Credit Card linked UPI payments, cryptocurrency exchanges (regulated), and Al-driven financial services.



# What are the Key Drivers of Fintech Growth in India?

- Rapid Digital Adoption, Smartphone Penetration and 5G: The widespread availability
  of affordable smartphones and cheap internet has driven digital financial services.
  - With over **80 crore internet users,** fintech solutions have become accessible even in rural areas, bridging the financial inclusion gap.
  - According to a recent survey The percentage of households with smartphones, as well as internet connectivity, is around 88%
  - 5G subscriptions in India are expected to account for nearly 65% of all mobile subscriptions by the end of 2029 reaching 840 million.
- Government Initiatives and Regulatory Support: The Indian government's push for a
  cashless economy through <u>Digital India</u>, <u>JAM Trinity (Jan Dhan-Aadhaar-Mobile)</u>, and
  financial inclusion schemes has significantly boosted fintech.
  - Over 54.58 crore <u>Jan Dhan accounts</u> are opened as of 15th January, 2025, with 55.7% held by women.
  - RBI and SEBI have introduced regulatory frameworks for digital lending, digital banking units, and account aggregators, ensuring a stable environment for fintech growth.
- **UPI Revolution and Payment Innovations:** India's <u>Unified Payments Interface (UPI)</u> has transformed digital transactions, offering seamless interoperability and zero-cost transactions.
  - The launch of **UPI-linked credit card payments** has further expanded its reach.
  - UPI is projected to account for 90% of the total transaction volume in retail digital

- payments over the next 5 years.
- India is expanding UPI adoption in global markets, with partnerships in Singapore, UAE, and France (NPCI).
- Rise of Digital Lending and Alternative Credit Models: Fintech-driven lending has expanded
  access to credit, especially for <u>MSMEs</u> and gig workers, using Al-based risk assessment instead of
  traditional credit scores.
  - Digital lenders and Buy Now, Pay Later (BNPL) models are reshaping consumer finance, offering instant, collateral-free credit.
  - The size of the Indian digital lending companies is set to grow from USD 38.2 billion in 2021 to nearly USD 515 billion by 2030.
- Growth of InsurTech and WealthTech Platforms: The fintech sector has disrupted insurance (InsurTech) and wealth management (WealthTech), making financial products more accessible through digital channels.
  - Al-powered advisory services, robo-advisors, and blockchain-driven insurance claims have enhanced efficiency and transparency in financial planning.
  - The WealthTech market in India is projected to exceed \$60 billion by 2025, growing at a 12-15% CAGR (NASSCOM).
  - The Indian InsurTech sector has witnessed a 12-fold revenue growth over the past five years to \$750 million in 2023, according to a report released by Boston Consulting Group
- Expansion of Embedded Finance and Open Banking: Embedded finance, where financial services are integrated into non-financial platforms (e.g., Amazon Pay, Ola Money), is driving seamless transactions.
  - Open Banking, facilitated by the Account Aggregator framework, enables secure financial data sharing, improving credit access for individuals and businesses.
  - Embedded finance can unlock \$25 billion revenue opportunity for India's digital and financial services platforms by 2030.
  - India's Account Aggregator (AA) ecosystem has expanded significantly, with 1.1 billion AA-enabled accounts and 2.05 million users voluntarily sharing their financial data with banks and financial institutions to access loans and secure better, faster deals on financial products.
- Rise of Blockchain and CBDC (Digital Rupee): Blockchain technology is enhancing security, transparency, and efficiency in financial transactions.
  - The RBI's launch of the <u>Central Bank Digital Currency (CBDC)</u> or Digital Rupee aims to modernize the payment ecosystem, reducing dependency on cash.
  - The latest Currency and Finance Report indicates that the number of retail **e-rupee users** reached 5 million by the end of June 2024.
  - India's blockchain technology market generated USD 321.5 million in revenue in 2022 and is projected to grow to USD 53,182.9 million by 2030
- Increasing Foreign Investments and Fintech Startups Boom: India's fintech ecosystem is one of the world's fastest-growing, attracting global investors.
  - The combination of a vast consumer base, progressive regulations, and technological advancements makes India a fintech hub.
    - India has over 2,500 fintech startups, second only to the US (Invest India).

### What are the Key Issues Related to the Fintech Sector in India?

- Regulatory Uncertainty and Compliance Challenges: The fintech sector in India operates in a rapidly evolving regulatory environment, leading to uncertainty for startups and investors.
  - **RBI banned Paytm Payments Bank (2024)** from onboarding new customers due to regulatory violations, highlighting significant compliance challenges in the sector.
  - Also, the lack of clear guidelines on Al-enabled fintech, cryptocurrency, and data protection makes compliance difficult.
- Cybersecurity Risks and Digital Fraud: With increasing digital transactions, cyber threats like <a href="mailto:phishing">phishing</a>, identity theft, and financial fraud have surged.
  - Many fintech firms lack robust cybersecurity frameworks, exposing customer data to breaches.
  - India witnessed a 65% increase in payment fraud cases in 2023, with financial losses exceeding INR 1200 crore.

- UPI frauds constituted around 40% of these incidents with **digital arrest** led fraud being the prominent ones.
- **Digital Lending and Predatory Practices:** The rise of digital lending platforms has led to issues like **high-interest rates**, **unethical recovery practices**, **and harassment of borrowers**.
  - Many loan apps operate without proper RBI registration, trapping low-income users in debt cycles.
    - While RBI's <u>Digital Lending Guidelines</u> aim to regulate the sector, enforcement challenges persist.
  - The Indian government recently proposed a law to ban unregulated lending and impose a **Rs 1 crore fine on offenders**, but implementation remains a major concern.
- Data Privacy and Consent Issues: Fintech companies collect vast amounts of user data but lack robust frameworks to ensure privacy and transparency.
  - India ranked 5th in global data breaches in 2023, with 5.3 million leaked accounts.
  - Many apps access sensitive information without user consent, leading to data misuse and security concerns.
    - <u>India's Digital Personal Data Protection Act (2023)</u> with its recently released rules, is still in its nascent stage.
- Digital Divide and Financial Inclusion Gaps: Despite fintech growth, rural and semi-urban India still faces challenges in accessing digital financial services.
  - Limited internet penetration, lack of digital literacy, and language barriers prevent millions from benefiting from fintech solutions. T
    - The JAM (Jan Dhan-Aadhaar-Mobile) framework has expanded access, but digital adoption remains slow.
  - Only 38% of rural or semi urban Indians use digital financial services. Also, 11.30 crore | an Dhan accounts remain inactive.
- High Customer Acquisition Costs and Profitability Concerns: Fintech startups struggle with high customer acquisition costs due to intense competition and heavy reliance on discounts and cashback offers.
  - Many firms operate on **thin margins, making long-term profitability a challenge.** The lack of a sustainable revenue model has led to the shutdown of several startups.
  - Fintechs in India raised just **USD 2.1 billion in 2023,** reflecting a nearly **300**% **drop from 2022**
- Monopoly Concerns and Lack of Market Competition: A few players dominate India's fintech ecosystem, leading to concerns about monopolistic practices.
  - Three firms control over 94% of UPI transactions PhonePe, Google Pay, and Paytm.
    - Lack of competition reduces innovation and creates dependency on a handful of platforms.
  - NPCI introduced **UPI market cap rules** to limit the dominance of big players, but full implementation is delayed and deadlines keep getting extended.

# What Steps can India take to Revitalize its Fintech Sector and become a Global Model?

- Establishing a Comprehensive and Adaptive Regulatory Framework: India needs a unified and dynamic regulatory framework that balances innovation with consumer protection.
  - Clear guidelines on digital lending, data privacy, cryptocurrency, and embedded finance will create stability for fintech players.
  - A **Regulatory Sandbox 2.0** can allow controlled testing of new financial products before full-scale implementation.
  - Strengthening coordination between RBI, SEBI, and NPCI will ensure streamlined oversight.
- Strengthening Data Protection and Cybersecurity Infrastructure: Digital Personal Data Protection Law should be complemented with clear provisions on consent, data portability, and security, that will safeguard user privacy.
  - Mandating zero-trust security architecture and Al-driven fraud detection will enhance cybersecurity resilience.
  - Stricter penalties for data breaches and compliance mandates for fintech firms will build consumer trust.

- Promoting indigenous cybersecurity startups can reduce reliance on foreign security solutions.
  - Also, India can lead global fintech security standards by integrating blockchain for secure transactions.
- Financial Inclusion through Regional Language Fintech Solutions: To bridge the digital divide, fintech platforms must provide multilingual, voice-enabled, and Al-driven interfaces.
  - Leveraging **UPI Lite, offline payments, and feature-phone banking** will improve accessibility for low-income groups.
  - Encouraging Indian fintech startups to develop vernacular financial literacy programs will enhance adoption in rural areas.
  - Special financial products tailored for MSMEs, gig workers, and women entrepreneurs will promote inclusive growth. India can showcase fintech as a tool for mass financial empowerment to the world.
- Encouraging Open Banking and Interoperability for Seamless Transactions: A well-structured Open Banking ecosystem, supported by the Account Aggregator framework, will enable secure and seamless financial data sharing.
  - Mandating universal API standards will improve interoperability among fintech firms, banks, and NBFCs.
  - Expanding UPI-like models for global remittances and cross-border transactions
     (as initiated by India with UAE) will enhance India's global fintech footprint.
  - Ensuring fair access to financial data while preventing monopolistic control will promote healthy competition. Open banking can position India as a model for democratic digital finance.
- Scaling Embedded Finance and BNPL with Responsible Lending Guidelines: Embedded finance (fintech within non-financial platforms) and Buy Now, Pay Later (BNPL) models must be regulated with consumer protection safeguards.
  - Mandatory risk assessment algorithms will prevent over-lending and debt traps.
    - Introducing a **Central Digital Credit Bureau** can monitor alternative credit lending in real time.
  - Encouraging ethical lending practices through interest rate transparency and responsible debt collection policies will reduce predatory lending.
- Strengthening Fintech Funding: To sustain fintech innovation, Fintech Venture
   Funds backed by government-private partnerships should provide early-stage capital.
  - Tax incentives for startups in Al-driven finance, blockchain, and cybersecurity will attract more fintech entrepreneurs.
    - Expanding co-lending models between fintech firms and traditional banks can create hybrid financial solutions.
  - Ensuring fintech startups have a clear path to profitability instead of over-reliance on cashbacks and discounts will make the sector more resilient.
    - A balanced funding ecosystem will establish India as a global fintech hub.
- Leveraging AI, Blockchain, and Quantum Computing for Next-Gen
   Fintech: Encouraging AI-driven wealth management, fraud detection, and automated lending can enhance financial efficiency.
  - Blockchain-powered smart contracts for trade finance and asset tokenization will drive financial innovation.
  - Exploring <u>quantum computing</u> for ultra-secure transactions will place India at the forefront of fintech security research.
  - Promoting decentralized finance (DeFi) regulations will enable India to lead in Web3-driven financial systems.
    - Adopting deep-tech-driven fintech models will position India as a **next-generation financial powerhouse**.
- Institutionalizing Global Fintech Standards and Thought Leadership: India should lead
  international fintech standardization efforts through the G20, BIS, and IMF to influence
  global regulations.
  - Establishing an **India Global Fintech Institute** to conduct research, policymaking, and regulatory innovation will strengthen thought leadership.
  - India can emerge as the Silicon Valley of Fintech by driving regulatory and technological best practices.

#### **Conclusion:**

India's fintech revolution has **redefined financial inclusion through digital payments, Al-driven lending, and blockchain innovations.** Strengthening data protection, fostering competition, and enhancing global fintech partnerships will be key to leadership in the sector. A balanced approach—**promoting innovation while ensuring consumer protection—can position India as a global fintech powerhouse**.

### **Drishti Mains Question:**

India's fintech revolution is reshaping financial intermediation, often bypassing traditional banking structures. In this context, critically examine whether fintech is democratizing finance or deepening digital and economic divides.

### **UPSC Civil Services Examination, Previous Year Questions (PYQs)**

- Q. With reference to India, consider the following: (2010)
  - 1. Nationalisation of Banks
  - 2. Formation of Regional Rural Banks
  - 3. Adoption of village by Bank Branches

Which of the above can be considered as steps taken to achieve the "financial inclusion" in India?

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 3 only
- (d) 1, 2 and 3

Ans: (d)

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