# "The Role of FinTech in Advancing Financial Inclusion: A Review of Global and Emerging Market Perspectives"

#### Dr Ataur Rahman Faroogi

Assistant Professor (Accounting)
College of Economics & Business Administration, Nizwa
University of Technology and Applied Sciences, Oman

#### **Abstract**

By making Financial Services more widely available, Financial Technology (FinTech) is undeniably improving access for people in underserved communities and the unbanked. FinTech is offering mobile payments, savings tools, and access to credit and insurance further. This is breaking traditional barriers by bringing them closer to the people who need them most. In this review, we consider how digital tools such as mobile money platforms, digital wallets, peer-to-peer lending, neo-banks, and blockchain solutions can make financial services accessible, affordable, and user-friendly across global and emerging markets.

The research examines human engagement and appropriation of these innovations, drawing on well-established theories of technology adoption and human empowerment. It draws attention to local successful initiatives like India's Aadhaar-enabled suite of software and UPI, Brazil's instant payment scheme PIX, Sub-Saharan Africa's success with mobile money, and open banking framework in Europe and the UK.

However, the journey toward true financial inclusion is not without challenges. Many people still face barriers like limited internet access, low digital literacy, cultural and gender biases, and concerns around data security. Vulnerable groups, including the elderly and people with disabilities, are often left behind in digital finance conversations. The review calls for more inclusive and ethically grounded FinTech ecosystems—those that are secure, accessible, and designed with real human needs in mind.

Collaboration is essential to achieve this. Regulators, FinTech developers, nonprofits, and central banks must work together to ensure innovation drives efficiency and supports social equity and long-term development.

## **Keywords**

Fin Tech, Financial Inclusion, Emerging Markets, Digital Public Infrastructure, Inclusive Finance

#### 1. Introduction

Financial inclusion is the process of ensuring that people and businesses—especially those usually excluded from the official financial system—have access to useful and reasonably priced financial products and services delivered responsibly and sustainably—transactions, payments, savings, credit, and insurance—demanded in line with their needs (Demirgüç-Kunt et al., 2018).

Globally, poverty reduction and inclusive economic development are thought to be driven in great part by financial inclusion. It is included within Sustainable Development Goal 8 of the United Nations, more especially Target 8.10, which seeks to "strengthen the capacity of domestic financial institutions to encourage and expand access to banking, insurance and financial services for all" (United Nations, 2015). Expanding financial access will help nations enable people to control risks, make investments in healthcare and education, and engage more fully in the economy (World Bank, 2022).

Particularly in developing countries and low-income areas where traditional banking services are sometimes insufficient, financial technology (FinTech) has become increasingly important in fostering financial inclusion. For underprivileged populations, innovations including mobile money (e.g., M-Pesa in Kenya), digital wallets, blockchain-based remittance platforms, and neobanks are making financial services more accessible, reasonably priced, and user-friendly.

Using mobile technology, cloud computing, artificial intelligence, and big data, FinTech solutions lower transaction costs and reach users once excluded, so bridging the financial divide (Ozili, 2018). While also pointing out the difficulties with regulatory frameworks, digital literacy, and socio-cultural barriers, this review seeks to critically examine the literature on the function of FinTech in advancing financial inclusion, drawing lessons from both worldwide experiences and emerging market innovations.

#### 2. Theoretical Frameworks

This section outlines the key theoretical frameworks that help explain how and why individuals adopt FinTech solutions. By applying different theories, the study provides a deeper understanding of user empowerment, technology adoption behavior, and the spread of digital finance in diverse contexts.

Capability Approach – Empowerment through access. Amartya Sen's Capability Approach emphasizes that expansion of the freedoms and opportunities that people need to achieve a life that they value. As far as financial inclusion is concerned, this perspective goes beyond just accessing to actually empowering access. When FinTech is aligned with the Capability Approach, it plays the role of a capability-enhancing instrument. It focuses not just on enabling transactions but on boosting individuals' capabilities like saving for medical treatment, educating children or starting a business. This approach emphasizes that financial inclusion ought to convert financial access into real economic and social opportunities, hence empowerment (Sen, 1999; Johnson & Sherraden, 2007).

Technology Acceptance Model (TAM) – Understanding FinTech adoption. The Technology Acceptance Model (TAM), proposed by Davis (1989), is a model that helps the user to adopt the technology in the system. To summarize this theory in simple terms: usefulness more or less refers to how much advantage/usefulness you think the technology will bring to you. The model is useful in FinTech adoption studies, in particular regarding the reasons why users in emerging markets adopt or reject mobile banking apps, digital wallets or peer-to-peer lending providers. Financially excluded groups rely on technology for their financial needs. Their acceptance of technology, influenced by factors like trust and digital literacy which differ by context, makes the TAM perspective important for assessing the barriers and incentives relating to FinTech (Venkatesh & Davis, 2000; Shaikh & Karjaluoto, 2015).

Diffusion of Innovation Theory – Adoption of mobile and digital finance. Diffusion of Innovation Theory (Rogers, 2003) explains how a new idea gains momentum and diffuses through a social system. It aims to add an element of clarity and features five adopter segments. In the Fintech industry, the theory shows how digital financial products such as mobile money, blockchain remittances and digital credit, travel from early adopters (usually urban and tech-savvy) to broader rural and low-income audiences. It emphasizes the importance of communication channels, social structures and type of innovations (relative advantage, compatibility) in shaping the rate of adoption. When using this framework to assess FinTech diffusion in the South African context, it may reveal regional / demographic differences in FinTech adoption and ways to facilitate more rapid / inclusive diffusion in underserved communities (Rogers, 2003; Donner & Tellez, 2008).

#### 3. FinTech Tools Promoting Inclusion

FinTech innovations have profoundly transformed the financial landscape by offering accessible, affordable, and scalable solutions for those who are financially excluded. This section delves into four primary categories of FinTech tools that promote financial inclusion in both developed and emerging markets: mobile money and digital wallets, microfinance and peer-to-peer lending, digital banking and neo-banks, as well as blockchain-enabled services.

## 3.1 Mobile Money and Digital Wallets

Particularly in places lacking conventional banking infrastructure, mobile money and digital wallets have become fundamental FinTech tools extending financial services to underprivileged populations. M-Pesa in Kenya is a well-known success story that lets consumers deposit, move, and withdraw money with simple cell phones. Research indicates that M-Pesa has improved financial resilience among rural households and helped thousands out of poverty (Suri & Jack, 2016). Offering real-time interbank transactions with low cost, platforms like Paytm and the government-backed Unified Payments Interface (UPI) have transformed the digital payments scene in India. Alipay has combined payments, savings, and microloans into a single platform in China so reaching millions of unbanked consumers with services.

By allowing rural populations, women, and low-income groups to participate in the digital economy, send remittances, pay bills, and even get government subsidies, these platforms have had a transforming effect on these groups. Crucially, these instruments also lower reliance on cash, encourage openness, and provide users a safe approach to handle their money (Demirgüç-Kunt et al., 2018).

#### 3.2 Microfinance and Peer-to-Peer Lending

FinTech dedicated to microfinance and lending is allowing borrowers to get loans without the intervention of traditional banks. Using tech and alternative data, like cell phone, social media and transaction behavior, these sites connect lenders to borrowers so that credit worthiness can be assessed. This is particularly useful in reaching workers in the informal sector, gig economy players and small businesses without credit histories.

For example, platforms like Kiva, Faircent (India), and Funding Circle (UK) have demonstrated the scalability of P2P lending in developed and developing nations. Advances in technology provide credit accessibility, lower borrowing costs, and tailored financial products. Similarly, they offer investors more competitive returns and provide borrowers with more choice, allowing for a more inclusive financial ecosystem (Berman & Korb, 2018; Gabor & Brooks, 2017).

## 3.3 Digital Banking and Neo-banks

Digital-only banks, often referred to as neo-banks, are disrupting the conventional banking model by offering fully digital financial services without physical branches. These banks provide 24/7 access, simplified user interfaces, low-fee or no-fee accounts, and personalized financial tools through mobile-first platforms. Notable examples include Nubank in Brazil, which serves millions of unbanked and underbanked users through a low-cost credit and savings model, and Chime in the U.S., which targets younger and financially underserved segments.

In India, the Jan Dhan-Aadhaar-Mobile (JAM) trinity has facilitated the opening of over 480 million no-frills bank accounts linked with biometric identification and mobile phones. This initiative has created a foundational infrastructure for FinTech solutions to deliver direct benefit transfers (DBTs), subsidies, and credit services to millions of citizens. Digital banks thus enhance financial inclusion by minimizing overhead costs and allowing for low-balance accounts, instant customer onboarding, and real-time service delivery (Khera, 2017; World Bank, 2022).

## 3.4 Blockchain and Crypto-based Inclusion

Blockchain technology and cryptocurrencies are emerging as revolutionary instruments for enhancing financial inclusion, especially in areas like cross-border remittances, identity verification, and secure financial recordkeeping. By eliminating intermediaries, blockchain systems reduce transaction costs and offer quicker settlement times, which is crucial for migrant workers sending money to family members in low-income nations.

Initiatives such as BitPesa (now AZA Finance) in Africa and Stellar in Southeast Asia demonstrate how blockchain can enable low-cost currency exchanges and improve liquidity for microtransactions. However, challenges like price volatility, regulatory uncertainty, and low user trust hinder their widespread adoption among at-risk groups (Carstens, 2019; Gabor & Brooks, 2017). Furthermore, inadequate digital literacy could increase exclusion instead of reducing it. Therefore, while blockchain presents significant potential for inclusive finance, its deployment needs to be paired with consumer protection measures and educational initiatives.

# 4. Regional Perspectives

Global financial inclusion powered by fintech differs by region. They are encountering different regulatory frameworks, technologies and socio-economic conditions.

Developed markets are investing in consumer choice, interoperability, and data control through open banking, whereas emerging markets are investing in access, affordability, and infrastructure for the unbanked. This passage discusses regional models that have influenced outcomes in FinTech adoption and inclusion.

#### 4.1 Developed Markets

Developed economies use open banking frameworks to drive financial innovation and financial inclusion. The banks are required to share their customers' data with anyone through PSD2 and UK open banking. FinTech apps are on the rise delivering personalized financial products, real time budgeting, competitive loan offerings especially for underserved segments like gig workers, SMEs and migrants (Arner et al., 2016). These systems provide a chance for enhanced transparency, competition, and financial competence while increasing control over users' financial data.

Estonia, Sweden, and Finland are Nordic countries that have adopted the digital ID system to access financial services. Using the e-ID infrastructure provided by governments, citizens can open a bank account, access credit, authenticate a digital transaction safely and instantly. These innovations make it easier to start using services, simplifies know-your-customer procedures and greater digital trust (World Bank, 2022). The net result is a conducive digital ecosystem for inclusive finance.

Even though financial exclusion is happening at relatively low levels in these regions, efforts to digitize ensure access by senior citizens, the disabled community and new immigrants.

## 4.2 Emerging Markets

Emerging economies demonstrate some of the most impactful FinTech use cases in promoting mass-scale financial inclusion. India has built one of the world's biggest digital financial infrastructures, courtesy of UPI and Aadhaar, a universal biometric identification system. UPI delivers instant real-time peer-to-peer and merchant payments across the banks while Aadhaar provides e-KYC and digital authentication besides the delivery of government subsidies. The aforementioned has expanded the reach of digital finance significantly among low-income households, rural households and micro-entrepreneurs (Khera, 2017; Kumar & Sinha, 2020).

Fintech arose from necessity in Sub-Saharan Africa, which has historically limited banking infrastructure. Efforts to look at profitable investments options have gain momentum in Kenya and Zimbabwe, telecom firms and make use mobile money applications to bridge the banking gap. Example, M-Pesa in Kenya and EcoCash in Zimbabwe, millions are able to pay, save and borrow using mobile phones where banks don't exist. Research indicates that mobile money reduces poverty, improves household welfare, and empowers women by giving them greater control over finances (Suri & Jack, 2016). This success owes a lot to regulatory support, agent networks, and partnerships with telcos.

Meanwhile, Latin America has seen rapid growth in digital payment solutions, particularly in Brazil, Mexico, and Colombia. The rise of FinTech unicorns like Nubank and Mercado Pago reflects a region-wide shift toward mobile-first banking. These platforms target unbanked populations through simplified onboarding, low-fee accounts, and credit access based on alternative data. Despite regulatory fragmentation, governments are increasingly recognizing FinTech's role in boosting financial inclusion, with central banks launching initiatives to regulate digital wallets and create interoperability (Heggestuen, 2021).

## 5. Challenges and Limitations

Although FinTech has greatly contributed to financial inclusion, its progress faces obstacles. Various challenges—technological, socio-cultural, regulatory, and trust-related—remain impediments to its fair adoption and usage, especially in low-income and marginalized communities. Recognizing these limitations is essential to prevent digital financial innovations from unintentionally worsening exclusion or generating new inequalities.

## 5.1 Digital Divide: Infrastructure, Literacy, and Affordability

FinTech has a powerful potential to extend financial access. However, structural challenges still act as barriers. Accessing the internet, smartphones, and even reliable electricity is uneven in many rural and remote regions of developing countries. They won't get up in people's hands and even if they do, won't be able to use it. FinTech seeks to provide services to small farmers, daily wage earners, rural women, and others yet they are also excluded from the digital financial ecosystem (Donner & Tellez, 2008).

According to Farooqi et al (2022), financial literacy is the understanding and application of various financial skills, including personal financial management, budgeting, and investing. Essential pillars of financial literacy include earning, spending, saving/investing, borrowing, and securing. With the increasing complexity of today's economic environment, it highlights the importance of financial knowledge. It also calls for commitment to lifelong learning to cultivate appropriate financial behaviours and effective decision-making.

Many people are incapable of using the digital tools that are available to them due to low levels of digital literacy. It's difficult to browse the apps, learn about cyber security, or make digital payments for the first time. The expensive mobile data, costs on transactions, and prices of smartphones make it clear that why low income group attempts to abstain. If we do not address these barriers through inclusive infrastructure, education, and affordability measures, then it will only enhance inequalities further rather than bridging them.

#### 5.2 Gender and Cultural Barriers to Technology Adoption

Financial exclusion due to gender is an issue in many countries. Women can be restricted from accessing or using FinTech due to cultural norms, mobility restrictions, and lack of access to formal education, particularly in patriarchal settings (GSMA, 2021). Mobile phones are often taken into possession or are monitored by male family members, restricting women's privacy, even when there is access. In addition, financial services and products are often not designed with women's needs in mind, including for example flexible repayment terms or savings for health and education. As a result, women are less likely to adopt them. Deliberate design steps must be undertaken to convert gender digital divide into a gender digital dividend.

#### 5.3 Regulatory Hurdles and Risks of Exclusion

Many countries' regulations have not caught up to the fast-paced growth of FinTech. Not having rules creates confusion, although it benefits FinTech companies that want to innovate, it does not bring much comfort to users about utilizing those services. It is critical for security; however, they don't typically enable a lot of people who may be informal workers or rural residents without standard identity documents. Nonetheless, less

regulation can also lead to fraud and abuse, which may damage the user who is more vulnerable (Arner et al., 2016). Governments facing a tough time balancing innovation, regulation for consumer protection. People find it difficult to trust and adopt fintech owing to a lack of common digital infrastructure, clear data policies, and effective complaints mechanism. In the absence of sound and user-friendly regulations, the potential for FinTech to boost inclusive finance may not be realised fully.

## 5.4 Trust, Cybersecurity, and Fraud Concerns

Trust plays a vital role in use of DFS. When first-time or low-literacy users experience a data breach or fraud, it can reduce their trust in technology. Vulnerability of financially deprived groups to cybercrime increases when they are not aware of their privacy rights and security best practices. Also, FinTech platforms (especially in jurisdictions with weak or no regulation) may not have sufficient protections for containing risk or customer data. As financial services become increasingly digitized (Ozili, 2018; Carstens, 2019), building and maintaining trust will depend on robust cyber security systems, user education and the ethical design of artificial intelligence.

## 6. Policy and Regulatory Enablers

FinTech's full potential can be used for financial inclusion with a good policy and regulatory framework. Across the globe, governments and regulators are experimenting with new frameworks to ensure that the financial innovations they offer can protect guidelines while being inclusive. This section discusses some of the key policy instruments like regulatory sandboxes, digital public infrastructure and financial education that can help enable responsible and inclusive FinTech development across the world.

## 6.1 Regulatory Sandboxes: Innovation within a Safe Space

With regulation relaxed, regulatory sandboxes offer controlled environments in which Fintech firms test innovative financial products or services under the supervision of the financial authority. This strategy helps the government understand emerging technologies while allowing start-ups to grow responsibly. Nations such as India (the RBI Sandbox), the UK (the FCA Sandbox), and Singapore (the MAS Sandbox) have pioneered these ideas, so promoting the development of inclusive FinTech solutions like digital microcredit and mobile insurance, and biometric-based authentication systems.

The sandbox method of the Reserve Bank of India has aided concepts designed to enhance access to rural credit and to facilitate digital onboarding for low-income consumers. Through these projects, an evidence-based approach to regulation is encouraged in a manner that enables innovation without jeopardizing systemic safety (Arner et al., 2016; GPFI, 2020).

## 6.2 Role of Central Banks and Digital Public Infrastructure

Building trust and standardization across digital financial ecosystems depends heavily on central banks. They boost public confidence in FinTech systems, provide legal clarity, and help enable interoperability. Furthermore, Digital Public Infrastructure (DPI), India's Aadhaar biometric system, UPI, and DigiLocker prove how fundamental technology layers the government can speed financial supplied For millions of people, India's JAM trinity—Jan Dhan-Aadhaar-Mobile—has been absolutely crucial in enabling digital identity verification, direct benefit transfers, and mobile banking. Likewise, launched by its central bank, Brazil's PIX instant payment system has helped digital payments with low-cost adoption be widely embraced. These projects highlight how central banks can play not only as regulators but also as ecosystem enablers in the FinTech inclusion space (World Bank, 2022; Leora et al., 2018).

## 6.3 Financial Education and Digital Literacy Initiatives

Without both financial and digital literacy, no FinTech solution can be totally inclusive. User education is becoming more and more important to policy makers in both developed and developing countries in order to lower anxiety, foster confidence, and promote sensible use of digital financial tools. Campaigns including "Digital India" and "Financial Literacy Week" (RBI, India) have concentrated on teaching rural populations, young people, and women on using mobile wallets, digital payments, and avoiding online fraud. Organizations including OECD, GIZ, and the World Bank have underlined globally the need of including financial education into national curricula and adult learning programs. Through gamified apps, visual tutorials, and voice-activated interfaces to suit low-literacy users, financial literacy is also being incorporated with digital onboarding by FinTech companies Empowering users to make wise financial decisions, avoid exploitation, and get confidence in digital financial ecosystems depends on these efforts ( Hung et al., 2012; Kumar & Sinha, 2020).

## 7. Research Gaps and Future Directions

Although research on FinTech and financial inclusion is expanding, significant gaps persist that need addressing to create more inclusive, fair, and sustainable digital financial systems. Current studies have primarily concentrated on the adoption rates of FinTech and technological advancements; however, a deeper understanding of long-term impacts, at-risk user groups, and ethical dilemmas is essential. This section outlines important areas for subsequent research and policy involvement.

## 7.1 Need for Longitudinal Impact Studies

Most of the present research on financial inclusion and FinTech is based on cross-sectional data, which provides snapshots instead of long-term understanding. There are few longitudinal studies examining how consistent access to FinTech products influences users' financial behavior, economic mobility, and resilience over time. For example, do mobile money consumers eventually acquire formal credit or better saving practices? With the ongoing use of digital financial tools, can small businesses expand steadily? Long-term research answering these questions would provide evidence-based validation of FinTech's development potential and guide improved policymaking and product design (Gabor & Brooks, 2017; Suri & Jack, 2016).

## 7.2 Gender-Specific FinTech Interventions

Although the gender gap in financial inclusion has narrowed globally, women remain disproportionately excluded from digital financial ecosystems, especially in South Asia, Sub-Saharan Africa, and parts of the Middle East. However, gender-disaggregated data on FinTech usage remains scarce. Future research must explore how cultural, technological, and economic factors interact to affect women's access and usage of FinTech. Moreover, there is a need for women-centric FinTech interventions, such as savings groups, digital credit tailored to women entrepreneurs, and platforms that support female financial independence. Such research would be critical in designing inclusive FinTech systems that recognize and accommodate gendered realities (GSMA, 2021; Chattopadhyay & Ghosh, 2020).

## 7.3 Data Privacy and Ethical Use of AI in Finance

Growing reliance of FinTech on big data and artificial intelligence algorithms begs major privacy, surveillance, algorithmic bias, and digital discrimination questions. Users in low-income, technologically naive groups sometimes provide sensitive material without fully knowing how it will be kept or used. Particularly in developing markets, there is little research looking at how FinTech platforms manage user consent, transparency, and justice in data practices. Future research should look at ethical AI frameworks, data protection laws, and user rights in FinTech systems so that innovation does not result in exploitation or exclusion (Ozili, 2018; Carstens, 2019).

## 7.4 Inclusive Design for Differently-Abled and Elderly Populations

Many times developed with a "one-size-fits-all" approach, FinTech solutions ignore the needs of differently-abled people and elderly adults who might have physical, cognitive, or digital challenges using financial technology. There is little research on universal design principles in FinTech—voice-activated banking, simplified user interfaces, and inclusive

customer support. Future innovation has to make sure that none of any group is left behind, particularly given population aging and the ongoing rise in the number of disabled people. More inclusive financial ecosystems can be created by means of joint efforts among FinTech companies, disability advocates, and human-centered design professionals (World Bank, 2022).

#### 8. Conclusion

It is without a doubt that FinTech is reshaping the global financial landscape and presenting new options to close long-standing gaps in financial inclusion. A nuanced ecocritical reading of "The Hungry Tide" can elucidate how our relationship with the other-than-human world is crucial to a sustainable and ecological future. What prompts us to look beyond anthropocentric narratives? Literature is the answer, as we see in this paper. It has made it possible for millions to save, borrow, transact, and strive towards stability financially, especially in the developing world. Fintech is a game-changer, make no mistake – but it is not a cure-all. Structural constraints like the digital divide, socio-cultural exclusion and regulatory inertia still inhibit the positive impact of digital financial inclusion on the poorest, albeit the benefits are still unevenly distributed.

If we really want to harness the potential of FinTech, we desperately need to build financial ecosystems that are inclusive, safe, and affordable. To allow users from diverse backgrounds especially women, the elderly, rural people and the differently-abled to use services that provide strong consumer care, ethical practices about data and digital literacy.

For ensuring equitable access and sustainable financial empowerment, it is essential that financial innovation is matched by basic public infrastructure, gender sensitive policies and regulatory clarity.

It takes the participation of the central banks, civil society organisations, regulators, the developers of FinTech and academia to find solutions. If we want FinTechs to be developmentally aligned, socially just and technologically sound, then everyone must participate in their R&D. The field must intentionally include everyone to ensure that no one or no community is left behind in the digital financial revolution.

#### References

- Arner, D. W., Barberis, J., & Buckley, R. P. (2016). FinTech, RegTech and the reconceptualization of financial regulation. *Northwestern Journal of International Law & Business*, 37(3), 371–413.
- Beck, T., Pamuk, H., Ramrattan, R., & Uras, B. R. (2018). Mobile money, trade credit, and economic development: Evidence from Africa. *Journal of Development Economics*, *133*, 242–265. <a href="https://doi.org/10.1016/j.jdeveco.2018.02.003">https://doi.org/10.1016/j.jdeveco.2018.02.003</a>
- Carstens, A. (2019). The future of money and payments. *BIS Annual Meeting*. <a href="https://www.bis.org/speeches/sp190624.htm">https://www.bis.org/speeches/sp190624.htm</a>

- Chen, G., & Rasmussen, S. (2014). Digital financial inclusion and development: Progress and challenges. *CGAP*. <a href="https://www.cgap.org/research/publication/digital-financial-inclusion-and-development-progress-and-challenges">https://www.cgap.org/research/publication/digital-financial-inclusion-and-development-progress-and-challenges</a>
- Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. *MIS Quarterly*, 13(3), 319–340. <a href="https://doi.org/10.2307/249008">https://doi.org/10.2307/249008</a>
- Demirgüç-Kunt, A., Klapper, L., Singer, D., Ansar, S., & Hess, J. (2018). *The Global Findex Database 2017: Measuring financial inclusion and the fintech revolution*. World Bank. <a href="https://doi.org/10.1596/978-1-4648-1259-0">https://doi.org/10.1596/978-1-4648-1259-0</a>
- Donner, J., & Tellez, C. A. (2008). Mobile banking and economic development: Linking adoption, impact, and use. *Asian Journal of Communication*, 18(4), 318–332. https://doi.org/10.1080/01292980802344190
- Farooqi, A. R., Pallavi, D. R., Ramachandran, M., Sowmiya, S., & Selvam, M. (2022). *A brief study on recent trends in financial literacy*. In *Recent Trends in Management and Commerce* (Vol. 3, Issue 1, pp. 40–45). REST Publisher. <a href="https://doi.org/10.46632/rmc/3/1/7">https://doi.org/10.46632/rmc/3/1/7</a>
- Gabor, D., & Brooks, S. (2017). The digital revolution in financial inclusion: International development in the FinTech era. *New Political Economy*, 22(4), 423–436. <a href="https://doi.org/10.1080/13563467.2017.1259298">https://doi.org/10.1080/13563467.2017.1259298</a>
- Heggestuen, J. (2021). How Latin America's FinTech boom is reshaping banking. *Business Insider Intelligence*. https://www.insiderintelligence.com/content/latin-america-fintech-2021
- Johnson, E., & Sherraden, M. (2007). From financial literacy to financial capability among youth. *Journal of Sociology & Social Welfare, 34*(3), 119–146.
- Khera, R. (2017). Impact of Aadhaar on welfare programs in India. *Economic and Political Weekly*, 52(5), 61–63.
- Kumar, N., & Sinha, S. (2020). Digital financial services in India: The role of platforms, institutions, and consumers. *Journal of South Asian Development*, 15(3), 361–384. https://doi.org/10.1177/0973174120967955
- Mas, I., & Radcliffe, D. (2010). Mobile payments go viral: M-PESA in Kenya. *The Capco Institute Journal of Financial Transformation*, 32, 169–182.
- Narula, R., & Lall, S. (2018). Developing countries and digital financial inclusion: A review of recent evidence. *Development Policy Review*, 36(S1), O21–O39. https://doi.org/10.1111/dpr.12281
- Ozili, P. K. (2018). Impact of digital finance on financial inclusion and stability. *Borsa Istanbul Review*, 18(4), 329–340. https://doi.org/10.1016/j.bir.2017.11.004

- Rogers, E. M. (2003). Diffusion of innovations (5th ed.). Free Press.
- Sahay, R., Čihák, M., N'Diaye, P., & Barajas, A. (2015). *Financial inclusion: Can it meet multiple macroeconomic goals?* IMF Staff Discussion Note. <a href="https://www.imf.org/external/pubs/ft/sdn/2015/sdn1507.pdf">https://www.imf.org/external/pubs/ft/sdn/2015/sdn1507.pdf</a>
- Sen, A. (1999). Development as freedom. Oxford University Press.
- Shaikh, A. A., & Karjaluoto, H. (2015). Mobile banking adoption: A literature review. *Telematics and Informatics*, 32(1), 129–142. https://doi.org/10.1016/j.tele.2014.05.003
- Suri, T., & Jack, W. (2016). The long-run poverty and gender impacts of mobile money. *Science*, 354(6317), 1288–1292. https://doi.org/10.1126/science.aah5309
- United Nations. (2015). *Transforming our world: The 2030 agenda for sustainable development*. <a href="https://sdgs.un.org/2030agenda">https://sdgs.un.org/2030agenda</a>
- Venkatesh, V., & Davis, F. D. (2000). A theoretical extension of the Technology Acceptance Model: Four longitudinal field studies. *Management Science*, 46(2), 186–204. <a href="https://doi.org/10.1287/mnsc.46.2.186.11926">https://doi.org/10.1287/mnsc.46.2.186.11926</a>
- World Bank. (2022). Digital financial services report: Toward inclusive financial systems. <a href="https://www.worldbank.org/en/topic/financialinclusion/publication/digital-financial-services">https://www.worldbank.org/en/topic/financialinclusion/publication/digital-financial-services</a>