

# Empowering Inclusion In The Digital Age: The Role Of Financial Literacy And Technology

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## Abstract

*The digital age has revolutionized the financial services sector, providing increased access to banking, payments, credit, and investment through digital platforms. In this context, financial literacy and inclusion have emerged as essential tools for empowering individuals to make informed financial decisions and participate meaningfully in the economy. This paper intends to explore the relationship between digital technology, financial literacy, and financial inclusion, with a focus on their role in promoting inclusive economic development. It examines how digital innovations such as mobile banking, digital wallets, and fintech applications have enabled underserved populations to access financial services previously out of reach. However, the effectiveness of these tools depends on the ability of people to understand and use them confidently. This present paper addresses these key challenges including digital illiteracy, lack of awareness, cybersecurity threats, and socio-economic disparities that limit the impact of financial inclusion. Examining the case studies and international initiatives, the research tries to develop a successful framework that combines financial education with digital access. It concludes by recommending integrated strategies that involve policy support, digital literacy campaigns, and community-based programs to build an inclusive, resilient, and digitally empowered financial ecosystem. (190 Words)*

**Keywords:** Financial Literacy, Digital Financial Inclusion, Fintech, Mobile Banking, Digital Payments

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## 1. INTRODUCTION

In today's technologically driven world, the ability to understand and engage with financial systems has become more important than ever. The rise of digital platforms has significantly altered how individuals interact with money, offering more convenience to customers, real-time access to banking, payments, loans, and investments. This transformation has brought about numerous benefits, especially in terms of accessibility and speed, but it has also introduced new complexities that require a solid foundation in financial literacy. As the global economy continues to embrace digital solutions, financial literacy and inclusion are increasingly recognized as fundamental to achieving equitable and sustainable economic growth.

Financial literacy, in its broadest sense, refers to the knowledge and skills needed to make informed and effective decisions about the use and management of money. It includes understanding concepts such as budgeting, saving, borrowing, investing, and risk management. In the digital age, financial literacy also encompasses familiarity with online banking, digital payments, financial technologies, and the responsible use of digital financial services. It is not just about knowing financial terms, but it also requires the ability to apply that knowledge in practical-life financial decision-making, particularly in a rapidly evolving technological environment.

Financial inclusion, on the other hand, refers to the availability and accessibility of useful and affordable financial products and services to all individuals and businesses, regardless of income or location. This includes access to banking, credit, insurance, savings, and investment services. In recent years, the term has expanded to include digital financial inclusion, which emphasizes the role of digital tools and mobile technology in reaching unbanked or underbanked populations. According to the World Bank, more than 1.4 billion adults worldwide still do not have access to a digital transaction account. It is a gap that digital finance aims to narrow.

The digital revolution has played a vital role in driving financial inclusion, particularly in low- and middle-income countries. Mobile banking platforms, digital wallet services have made it convenient for people in rural or remote areas to participate in the formal digital financial system for the first time. For example, digital tools like M-Pesa in Kenya, Paytm in India, and GCash in the Philippines have changed the way people transfer money, pay bills, and access credit. These digital tools offer convenience, lower transaction costs, and greater security compared to traditional systems. However, the effectiveness of digital financial services in promoting genuine inclusion depends heavily on the level of existing financial and digital literacy among users. A lack of understanding of how to use these tools, with low trust in formal financial institutions and a lack of awareness of financial rights and responsibilities, can hinder meaningful participation. In many cases, individuals may open digital accounts but fail to use them actively due to confusion, fear of fraud, or a lack of confidence in managing their finances. The intersection of digital access and financial literacy thus becomes a critical area of focus for policymakers, educators, financial institutions, and technology providers. The availability of digital services alone does not guarantee improved financial well-being. Without the necessary skills to navigate these services, vulnerable populations, including women, rural residents, and low-income groups, remain at risk of being excluded from the benefits of digital finance.

Moreover, the rapid growth of digital financial services has introduced new risks, including cybersecurity threats, identity theft, data breaches, and digital fraud. Financial fraud has become a pressing concern. People who are not adequately educated about protecting personal information or identifying online scams are more susceptible to financial harm. These challenges underscore the need for comprehensive digital financial literacy programs that go beyond basic numeracy and cover topics like online safety, privacy, and the ethical use of financial data. The government has also taken several steps to lower the risk of financial fraud. Also, NGOs, and international organizations such as the OECD and World Bank have launched national strategies for financial education and digital inclusion. In India, the Reserve Bank of India and other financial institutions have implemented campaigns to promote digital banking awareness in rural areas. Similarly, in Africa and Southeast Asia, mobile network operators and fintech startups are partnering with governments to roll out mobile financial services with embedded educational components. At the academic level, research on financial literacy and inclusion has grown substantially. Scholars have examined the impact of digital literacy on financial behavior, the effectiveness of mobile-based financial education programs, and the role of gender, education, and socio-economic status in shaping access to financial tools. The evidence consistently shows that targeted financial education can improve saving habits, encourage responsible borrowing, and increase the uptake of financial products. Despite these efforts, challenges exist. Many educational efforts remain fragmented or one-size-fits-all, lacking adaptation to local languages, cultural norms, and technological capabilities. Furthermore, financial literacy is not a one-time achievement but a lifelong learning process, especially as financial products and technologies evolve. For true inclusion to take root, it requires continuous learning and accessibility.

This chapter explores the evolving relationship between financial literacy and digital financial inclusion. It begins by examining the definitions and core components of financial literacy in the digital age, followed by an analysis of the main barriers to inclusion, including socio-economic disparity, technological limitations, and cultural factors. The chapter will also highlight successful case studies and models of financial literacy programs across different regions and populations. Additionally, the chapter will discuss the implications of digital finance for educators, policymakers, and financial service providers, emphasizing the importance of designing inclusive, secure, and user-friendly platforms. It will conclude with strategic recommendations for building a digitally literate and financially empowered society in which everyone, regardless of their background or income level, can participate confidently and effectively in the modern financial system.

## 2. REVIEW OF LITERATURE

The intersection of digital technology, financial literacy, and financial inclusion has garnered increasing scholarly attention in recent years, reflecting a global push towards equitable and sustainable economic participation. This review of literature draws upon academic research, international reports, and policy analyses to contextualize the current discourse around digital financial inclusion and the critical role of financial literacy.

#### **a. Financial literacy in the digital era**

Financial literacy, traditionally defined as the ability to make informed financial decisions, has expanded in scope with the advent of digital finance. Lusardi and Mitchell (2014) highlight that financial literacy correlates positively with wealth accumulation, retirement planning, and credit management. In the digital age, this skill set must now include knowledge of mobile banking, online transactions, cybersecurity, and digital budgeting tools (OECD, 2020). According to Atkinson and Messy (2012), digital financial literacy includes both access to information and the capacity to critically evaluate and apply it using technology.

Recent studies underscore the dynamic nature of financial literacy. Remund (2010) notes that literacy must adapt to evolving financial products and digital tools, requiring continuous education. Moreover, Bannier and Schwarz (2018) argue that individuals who possess strong digital financial literacy are better equipped to navigate online platforms, detect fraud, and make confident financial decisions.

#### **b. Digital Financial Inclusion: Opportunities and Challenges**

Digital financial inclusion refers to the use of digital technologies—such as mobile money, fintech platforms, and digital wallets—to deliver financial services to underserved populations. The World Bank (2022) emphasizes that digital channels have significantly expanded access to banking in rural and remote areas, particularly in Africa and South Asia. Initiatives like M-Pesa in Kenya and Paytm in India have been frequently cited as transformative tools for the unbanked (Jack & Suri, 2011).

However, researchers have noted that access alone does not ensure usage or empowerment. Demirgüç-Kunt et al. (2018) argue that many users open digital accounts but fail to actively use them due to a lack of digital literacy, cultural barriers, or fear of cyber fraud. In line with this, Gabor and Brooks (2017) caution that without adequate financial education, digital tools may deepen inequalities rather than mitigate them.

#### **c. The role of financial institutions and policy intervention**

Empirical studies consistently highlight the effectiveness of financial education programs in fostering responsible financial behavior. Fernandes, Lynch, and Netemeyer (2014), in a meta-analysis, found that financial education interventions significantly improve financial outcomes, especially when customized to specific user needs. The OECD-INFE (International Network on Financial Education) recommends integrating digital components into financial education strategies to align with contemporary financial ecosystems.

In India, the Reserve Bank of India's Financial Literacy Week and initiatives by the National Centre for Financial Education (NCFE) aim to increase awareness about digital banking and secure financial behavior, particularly in rural populations. Similarly, programs in the Philippines and sub-Saharan Africa have emphasized community engagement and language localization to ensure inclusivity (Klapper & Singer, 2017).

#### **d. Barriers to Financial Inclusion: Literacy, Trust, and Technology**

Despite global progress, significant barriers persist. Allen et al. (2016) identifies low education levels, gender disparities, and limited technological infrastructure as major hindrances to financial inclusion. Trust in digital systems is another key concern. According to studies by the GSMA (2021), concerns over data privacy, digital fraud, and identity theft deter many users—especially older adults and women—from fully embracing digital finance.

Cybersecurity threats are a growing concern in digital finance literature. Arner, Barberis, and Buckley (2015) emphasize the need for robust regulatory frameworks and consumer protection mechanisms to build trust and resilience in digital financial ecosystems.

### **3. Integrating Financial Literacy with Digital Access: Case Studies**

Effective integration of financial literacy and digital access is demonstrated in several successful international models. The GCash program in the Philippines integrates mobile money services with user training modules to encourage responsible usage. In Kenya, M-Shwari, a partnership between Safaricom and Commercial Bank of Africa, combines mobile savings with embedded financial literacy features.

In India, Digital Saksharta Abhiyan (DISHA) and PMGDISHA have aimed to increase digital literacy in rural households, indirectly supporting financial inclusion. Academic evaluations suggest that combining mobile technology with culturally relevant financial education yields better outcomes than standalone interventions (Suri & Jack, 2016).

#### **4. Research Objectives**

This paper aims to explore and define financial literacy in the context of the digital age, where rapid advancements in technology have significantly transformed how individuals' access, manage, and engage with financial services. Digital platforms, mobile banking, e-wallets, online investment tools, and fintech innovations are reshaping the financial landscape, making it essential for individuals to possess the necessary knowledge and skills to navigate these tools effectively. The study emphasizes the critical role of digital technologies in promoting financial inclusion, particularly among underserved and marginalized populations, by offering accessible and user-friendly solutions.

In addition to defining digital financial literacy, the paper examines various successful models and case studies from around the world that demonstrate how digital tools have been effectively used to enhance financial awareness and participation. These case studies provide valuable insights into best practices and scalable approaches. Furthermore, the paper presents policy-level and educational recommendations aimed at strengthening digital financial literacy through formal and informal learning channels. It advocates for collaborative efforts between governments, educational institutions, and private sector stakeholders to create inclusive frameworks that empower individuals, reduce the digital divide, and foster equitable access to financial services. Ultimately, the paper aspires to contribute to building a more financially informed and digitally empowered society.

#### **5. Overview of Study**

The growing complexity of global financial systems and rapid digitization of services have positioned financial literacy and inclusion as central themes in economic development discourse. Numerous scholars, institutions, and policy analysts have explored the evolving definitions, challenges, and applications of financial literacy and its impact on digital financial inclusion.

##### **a. Defining Financial Literacy in the Digital Age**

Historically, financial literacy was primarily associated with the ability to understand and apply basic financial concepts like budgeting, interest rates, saving, and credit. However, as Lusardi and Mitchell (2014) argue, the modern understanding of financial literacy extends beyond these traditional components to include digital competencies such as navigating mobile banking apps, recognizing online scams, and managing digital transactions securely. Atkinson and Messy (2012), in an OECD framework, emphasize the importance of integrating digital tools into financial education to improve practical application in real-life scenarios.

##### **b. Digital Financial Inclusion: A Broader Perspective**

Financial inclusion traditionally referred to access to banking and financial services. With the rise of digital technology, it now encompasses digital payment systems, mobile banking, fintech platforms, and online lending. According to the Global Findex Database (World Bank, 2021), digital financial services have helped reduce the gap in financial access, especially in low-income and rural populations. However, the same report highlights that despite access, many users do not actively engage with digital tools due to a lack of financial and digital literacy.

##### **c. Barriers to Financial Literacy and Inclusion**

Several studies identify common barriers to financial inclusion: low education levels, lack of awareness, distrust in formal institutions, and digital illiteracy. Klapper, Lusardi, and Van Oudheusden (2015) stress that gender, geography, and socio-economic status significantly affect financial literacy rates. In many countries, women and rural communities are disproportionately excluded from digital financial systems. Research by Demirgüç-Kunt et al. (2018) supports this view, emphasizing the need for targeted literacy programs to bridge these gaps.

##### **d. Technology as an Enabler and a Challenge**

While digital technology provides tools to increase outreach and reduce transaction costs, it also presents new challenges. Research by Arora and Ferrand (2007) warns that without proper user education, digital financial tools may lead to exploitation or misuse. Similarly, Hannig and Jansen (2010) argue that mobile-based financial services must be paired with user-friendly interfaces and support systems to ensure adoption. The literature thus emphasizes a two-fold approach: expanding access and ensuring meaningful usage.

##### **e. Successful Models and Case Studies**

Multiple countries have implemented national financial education strategies. India's Pradhan Mantri Jan Dhan Yojana (PMJDY), paired with Digital India initiatives, has significantly expanded access to bank accounts and digital services. However, as reported by the Reserve Bank of India (2020), many accounts

remain dormant due to poor financial awareness. Kenya's M-Pesa is frequently cited in literature as a successful digital inclusion model. Aker and Blumenstock (2015) note its effectiveness in promoting financial inclusion by using mobile infrastructure, even in areas with limited formal banking services. In academic research, scholars such as Remund (2010) and Huston (2010) call for integrated educational frameworks that combine practical digital tools with behavioral insights. They suggest that financial literacy education should include modules on risk, digital decision-making, and consumer protection, especially in emerging economies.

#### **f. The Role of Institutions and Policy**

Policy recommendations by the OECD, IMF, and World Bank consistently stress multi-stakeholder collaboration. Financial regulators, educational institutions, fintech companies, and civil society organizations must jointly develop scalable, context-sensitive financial literacy programs. The literature encourages lifelong learning models that adapt to the constantly changing financial and technological environments.

Year	Global DFS Usage (%)
2011	22
2014	35
2017	52
2021	64

**Table:** Digital Financial Access Growth (Global)- the percentage of adults using digital financial services (2011–2021) globally, based on Global Findex data, 2021.

The rise of digital technology has completely reshaped financial services, making payments and investments more accessible than earlier. Mobile banking, digital payments, and fintech apps have opened wider the doors for rural communities, allowing them to participate in financial systems that were previously not possible for them. But while these innovations hold great promise for economic inclusion, their success depends on one crucial factor: financial literacy. Simply having access to digital tools isn't enough, individuals also need the knowledge to use them effectively.

This research study examines the strong connection between digital finance, financial literacy, and financial inclusion. It makes the case that true financial empowerment requires more than just technology; individuals must understand how to manage money, assess risks, and make smart financial decisions in an increasingly digital world.

Digital financial services have already transformed lives, particularly in remote and low-income areas. Mobile money platforms allow people to save, borrow, and send payments securely, while fintech startups are designing affordable credit and insurance solutions for those traditionally excluded from formal banking. Yet despite these advances, many barriers remain.

A lack of digital skills, limited internet access, and fears about fraud prevent widespread adoption. In rural and marginalized communities, people often struggle with basic smartphone use, let alone navigating financial apps. Women, in particular, face additional hurdles due to cultural norms and unequal access to technology. Without addressing these challenges, the full potential of digital finance will remain untapped.

The study highlights successful approaches that combine financial education with digital access. Around the world, community-based programs have proven effective in building trust and improving financial decision-making. These initiatives show that when people understand how digital finance works, they're more likely to use it—and benefit from it.

Ultimately, this research argues that digital inclusion must go hand in hand with financial literacy. Governments, businesses, and non-profits need to work together to provide education, improve infrastructure, and ensure safe, user-friendly financial services. Only then can digital finance become a true force for economic equality and sustainable growth.

## **6. FINDINGS AND DISCUSSION OF THE STUDY**

This study, based entirely on secondary data sources such as published research articles, policy documents, government reports, and international case studies, presents several important findings on the interplay between digital financial services, financial literacy, and inclusion.

#### **a. Digital Technology is Expanding Access to Financial Services**

The analysis reveals that digital platforms, including mobile banking, e-wallets, and fintech applications, have significantly increased access to financial services among previously excluded populations. Countries like India (with PMJDY), Kenya (with M-Pesa), and Indonesia (with branchless banking initiatives) demonstrate that mobile-based financial services can help bridge the financial gap in underserved regions. These tools enable low-income individuals to save, transfer money, access microcredit, and make payments securely.

#### **b. Financial Literacy is a Prerequisite for Effective Inclusion**

One of the central findings is that the availability of digital financial tools alone is not sufficient to ensure financial inclusion. Without adequate financial and digital literacy, individuals are unable to understand, trust, or effectively use digital services. Many fail to distinguish between legitimate and fraudulent platforms, leading to security concerns and low usage rates. Secondary literature confirms that financial literacy improves users' confidence, encourages formal financial engagement, and enhances decision-making.

#### **c. Key Barriers Persist**

Despite technological advancements, several structural and socio-economic barriers hinder the full realization of digital financial inclusion. These include:

- Digital illiteracy, particularly among rural populations and women.
  - Limited access to digital infrastructure, such as smartphones and reliable internet.
  - Cybersecurity concerns, which erode trust in digital financial systems.
  - Gender disparities, where women face both technological and cultural barriers.
- These challenges are consistently reported across global reports and academic studies reviewed in this study.

#### **d. Success Lies in Integrated Approaches**

Case studies analyzed in this chapter indicate that multi-dimensional strategies are most effective. Initiatives that combine access to digital tools with localized financial education, community outreach, and gender-inclusive programming yield better outcomes. For example, financial education programs delivered through self-help groups or digital literacy training in schools and communities have shown measurable success in countries like Bangladesh, South Africa, and the Philippines.

#### **e. Policy and Public-Private Partnerships are Essential**

The findings also highlight the importance of supportive policy frameworks and collaborative efforts between governments, NGOs, and private financial institutions. Programs that leverage technology while addressing the socio-economic realities of users—such as subsidizing digital devices, offering vernacular-language content, and protecting user data—have proven more inclusive and sustainable.

### **7. CONCLUDING REMARKS**

The digital revolution has redefined the landscape of financial services, offering new pathways to inclusion and empowerment. However, access alone is not sufficient. As highlighted throughout this chapter, financial literacy plays a foundational role in enabling individuals to make informed, confident, and responsible use of digital financial tools. Without adequate financial and digital skills, marginalized populations may remain excluded from the very systems intended to support them. The literature and real-world examples discussed in this chapter make it clear that financial literacy must be viewed as both a personal competency and a public policy priority. Empowering people with knowledge about savings, credit, digital transactions, risk management, and fraud prevention enhances not only individual well-being but also contributes to the financial stability and economic growth of communities. Moreover, inclusive financial systems must be designed with an understanding of social, cultural, and technological contexts. Programs must address digital literacy gaps, gender disparities, and geographic limitations while ensuring user-friendly, secure, and transparent access to digital financial services. Collaboration among governments, financial institutions, educators, and technology providers is essential to developing scalable, sustainable, and context-specific financial literacy initiatives. In conclusion, achieving meaningful financial inclusion in the digital age depends not just on technological innovation, but on informed participation. A digitally literate and financially aware population is the cornerstone of an inclusive, resilient, and equitable financial future.

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