

A Study on the Role of Fintech Adoption on Employee Engagement in NBFCs: Challenges and Opportunities

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DOI:10.5281/zenodo.18029458

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In the Indian financial services industry, fintech has become a disruptive force, with non-banking financial companies depending more and more on digital technologies to improve productivity, reach, and competitiveness. This study looks at how fintech adoption affects employee engagement in Indian NBFCs, focusing on adoption trends, implementation difficulties, and engagement-related prospects. The study, which employs a conceptual and descriptive research approach, is founded on a methodical thematic examination of pertinent secondary literature on employee engagement, fintech, and digital transformation. The results show that the adoption of fintech alters work procedures and employee responsibilities, which in turn affects engagement through modifications to job descriptions, skill requirements, and work experiences. While fintech provides chances for job enrichment, learning, and enhanced performance, it also introduces new issues such as uneven digital preparation, technostress, and aversion to change. The study found that fintech improves employee engagement when combined with excellent training, communication, and human-centered change management. The report concludes by underlining the need of NBFCs aligning technological initiatives with staff development, as well as proposing further empirical research to investigate employee-centric outcomes of fintech adoption across varied organizational contexts.

Keywords: Fintech Adoption, Employee Engagement, Non-Banking Financial Companies (NBFCs), Digital Transformation

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Pooja Singh, Research Scholar, Department of Commerce, Shyama Prasad Mukherjee Government Degree College, University of Allahabad, Prayagraj, Uttar Pradesh, India. Email: poojasinghspm.au@gmail.com	Singh P, Singh A, A Study on the Role of Fintech Adoption on Employee Engagement in NBFCs: Challenges and Opportunities. Int J Engg Mgmt Res. 2025;15(6):33-41. Available From https://ijemr.vandanapublications.com/index.php/j/article/view/1828	

Manuscript Received 2025-11-05	Review Round 1 2025-11-19	Review Round 2	Review Round 3	Accepted 2025-12-06
Conflict of Interest None	Funding Nil	Ethical Approval Yes	Plagiarism X-checker 3.63	Note

1. Introduction

Financial technology (fintech) has become a powerful force reshaping the financial services landscape. The integration of digital tools such as automated credit scoring, mobile-based financial services, data analytics, and platform-driven lending has transformed not only service delivery but also the internal functioning of financial institutions. Fintech is widely recognized as a core component of digital finance, enabling efficiency gains, lower transaction costs, and innovative business models within financial organizations (Gomber et al., 2017).

Non-Banking Financial Companies (NBFCs) play an important role in India's economy by giving credit to underserved and semi-formal segments. Their operational flexibility and customer-focused approach position them as essential players in financial inclusion. In recent years, Indian NBFCs have embraced fintech solutions such as digital lending platforms, analytics-based risk assessment, and mobile interfaces to improve speed, reach, and efficiency. According to empirical studies, fintech adoption improves the competitiveness and performance of financial institutions in emerging areas (Dwivedi et al., 2021). However, previous research focuses mostly on organizational outcomes, providing minimal insight into workforce-related effects.

According to the literature on digital transformation, fintech adoption is more of an organizational reform than a technological update. It changes processes, managerial methods, and employee responsibilities, while relying more on data-driven decision-making and monitoring technologies (Lee & Shin, 2018). These modifications alter task structures, skill requirements, and performance standards, directly affecting employees' work experiences.

Employee engagement is widely recognized as a critical predictor of service quality, organizational effectiveness, and long-term performance in service-intensive industries like financial services. Employees that are engaged demonstrate greater dedication and discretionary effort, both of which are required in customer-facing positions. When digital adoption exceeds employee preparation, technology-intensive environments can cause technostress, role ambiguity, and reluctance to change (Thakor, 2020).

In the Indian NBFC context, these dynamics are exacerbated by worker diversity, unequal digital literacy, and the cohabitation of antiquated systems and modern fintech platforms. Despite substantial fintech research, employee engagement is still underexplored. Addressing this gap, the current study investigates the effect of fintech adoption in shaping employee engagement in Indian NBFCs, with a focus on adoption patterns, implementation issues, and new prospects.

2. Review of Literature

Saks (2006) studied the causes and consequences of employee engagement, distinguishing between job and organizational engagement. The goal was to put a social exchange theory-based conceptual model to the test. Regression and mediation analyses were performed using survey data from 102 employees across enterprises. The findings showed that perceived organizational support, job qualities, and procedural justice all have a substantial impact on engagement, which in turn effects job satisfaction, organizational commitment, desire to resign, and citizenship behavior.

Bondarouk and Brewster (2016) employ the Harvard HRM framework to conceptualize the developing link between human resource management and technology. The study's goal is to investigate how information technology affects HRM practices, stakeholder roles, and long-term consequences. The authors use a conceptual and analytical technique based on earlier empirical and theoretical studies to examine e-HRM from a contextual, multi-stakeholder, and sustainability perspective. The study identifies both efficiency improvements and growing difficulties, underlining the importance of further research on employee outcomes and strategic HRM reform.

Gomber, Koch, and Siering (2017) investigated the changing environment of Digital Finance and FinTech with the goal of mapping current research and determining future directions. The study examined digital financing, payments, investments, and advisory services using a systematic literature assessment of top finance and information systems publications. The investigation presented the Digital Finance Cube framework, which revealed a focus on crowdfunding and payments while flagging shortcomings in digital insurance and advising services.

Lee and Shin (2018) researched the fintech ecosystem to better understand its business strategies, investment decisions, and obstacles. The primary goal was to explain how fintech challenges traditional financial services. The study employed a conceptual and descriptive approach based on secondary data and industry sources. The analysis focused on important fintech business models, ecosystem members, and critical regulatory, technological, risk management, and investment uncertainty problems.

Thakor (2020) investigates the relationship between fintech and banking with the goal of combining existing theoretical and empirical research on fintech advances. Using a systematic review methodology, the paper examines digital payments, peer-to-peer lending, crypto currencies, and block chain-based businesses. The report concludes that while fintech enhances efficiency and competitiveness, it is unlikely to totally replace traditional banks. Instead, fintech transforms banking operations, alters risk structures, and poses new regulatory and systemic concerns to financial intermediation.

Verhoef et al. (2021) investigated digital transformation to better understand how businesses respond to rapid technology change and competitive pressure. The primary goal was to envision digital transformation, including its stages and strategic implications. The authors used a multidisciplinary scoping review methodology to synthesize earlier research in marketing, strategy, and information systems. Their analysis identified three phases: digitization, digitalization, and digital transformation, as well as the requisite digital resources, organizational structures, and performance measures, so offering a thorough analytical framework for future empirical research.

Jha (2025) investigated how digital transformation of NBFC loan applications affects financial inclusion in India. The goal was to see how digital platforms improved loan accessibility and efficiency for underprivileged people. The study examined digital tools like AI, mobile apps, and fintech platforms using a systematic literature review process based on Science Direct sources. The investigation indicated increased efficiency, transparency, and outreach, but challenges such as cyber security and regulatory deficiencies continue.

Thepdawala's (2025) study looks on the influence of Fintech adoption on NBFCs, specifically the effect on financial performance and capital structure, using TAM, IDT, and RBV as theoretical foundations. The study used a quantitative cross-sectional strategy, analyzing secondary data from 120 NBFCs in 12 countries using multivariate regression techniques. According to the report, Fintech adoption considerably lowers the debt-to-equity ratio, indicating stronger financial structure and less reliance on debt funding. However, the findings indicate that Fintech adoption has no statistically meaningful influence on short-term profitability measures like as ROA, ROE, or net margin.

3. Objectives

- To describe the patterns of fintech adoption in NBFCs and assess their effect on employee engagement.
- To explore the challenges faced by NBFCs and employees during the implementation and adoption of fintech solutions.
- To identify the opportunities created by fintech adoption for enhancing employee engagement and organizational performance in NBFCs.

4. Research Methodology

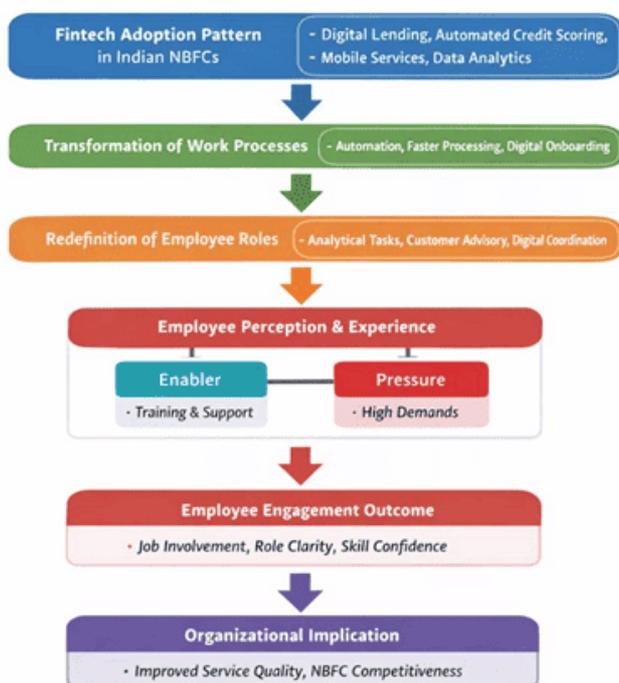
The study uses an exploratory and descriptive research approach to investigate the impact of fintech adoption on employee engagement in Indian NBFCs. The study is qualitative and interpretative in nature, relying solely on secondary data sourced from high-quality peer-reviewed research papers, journals, and articles on fintech, digital finance, employee engagement, and organizational transformation. A comprehensive thematic literature review strategy was used to discover, screen, and synthesize relevant papers from these fields. The analysis employs an integrative analytical framework in which major themes regarding adoption patterns, difficulties, and possibilities are grouped and conceptually linked. Based on this synthesis, a descriptive conceptual framework was created to describe the indirect channels by which fintech adoption promotes employee engagement. The scope of the study is limited to **Indian NBFCs**, with a focus on employee-centric organizational outcomes.

5. Analysis and Discussion

1. Patterns of Fintech Adoption and Their Influence on Employee Engagement in NBFCs:

Fintech adoption has emerged as a strategic need for NBFCs looking to increase efficiency and service delivery in a regulated and competitive market. However, adoption patterns vary depending on corporate capacity, regulatory requirements, and personnel preparation. These decisions determine daily work practices and have a direct impact on employees' perceptions and engagement, determining if fintech benefits or hinders their work experience. In this respect, the following points illustrate the most common fintech adoption trends in NBFCs and their implications for staff engagement.

Fintech Adoption and Employee Engagement in Indian NBFCs



Source: Compiled by Author

1.1 Fintech Adoption Patterns in Indian NBFCs

Indian non-banking financial companies have used fintech selectively and purposefully to improve operational efficiency, scalability, and regulatory compliance. Technologies such as digital lending platforms, automated credit appraisal, mobile applications, and data analytics are primarily employed to augment existing lending and service delivery models while adhering to RBI guidelines and rising client expectations.

1.2. Changes in Work Processes Due to Fintech Adoption

Adoption of fintech has significantly changed NBFCs' internal workflows. In order to improve speed, accuracy, and standardization, automated workflows and digital onboarding have taken the place of human paperwork and repetitive data entry. Because of this, workers are moving more and more from mundane jobs to higher-value positions like customer service, handling exceptions, and helping with decisions, creating a more productive and organized workplace.

1.3. Redefinition of Employee Roles and Responsibilities

With rising digitization, personnel responsibilities have shifted from transactional execution to analytical and customer-centric functions. Employees are now required to comprehend system-generated data, assess client profiles, and manage relationships using digital tools. This position redefinition has boosted skill requirements and given employees a greater sense of professional relevance. While fintech provides possibilities for learning and job enrichment, it also raises demands for adaptability and ongoing skill development.

1.4. Employee Perceptions of Fintech Adoption

Employee attitudes play a significant role in the outcomes of fintech adoption. Employees at NBFCs that support digital initiatives with training, managerial supervision, and clear communication see fintech as a tool that simplifies work and increases performance. Employees may face stress, job insecurity, and resistance to digital technologies if adoption is primarily driven by performance pressure and without proper support.

1.5. Impact on Employee Engagement

The effect of fintech adoption on employee engagement is conditional rather than automatic. Engagement rises when technology improves role clarity, decreases operational strain, and promotes skill development. In contrast, fintech adoption that increases task pressure and position uncertainty can reduce employee engagement and increase stress.

1.6. Implications for Indian NBFCs

Overall, fintech adoption has an indirect impact on employee engagement by changing job design, role expectations, and employee views.

NBFCs that take a human-centric approach to digital transformation are more likely to see fintech investments result in increased employee engagement and organizational success.

2. Thematic Analysis of Challenges in Fintech Adoption:

While fintech has tremendous benefits for NBFCs, its implementation is frequently accompanied by a number of organizational and employee-level obstacles. Constraints linked to regulatory compliance, technical integration, and personnel readiness can stymie adoption and disrupt daily operations. Employee-level challenges such as skill gaps, adaption pressure, and job-related uncertainty all have an impact on the efficacy of fintech adoption.



Source: Compiled by Author

2.1. Organizational and Structural Challenges

Organizational and structural constraints are a major barrier to fintech adoption for Indian NBFCs. Many NBFCs operate with fewer financial, technological, and infrastructure resources than large banks. Integrating sophisticated fintech solutions into legacy systems frequently results in compatibility concerns and temporary inefficiencies. Furthermore, stringent RBI laws on data security, privacy, and risk management add managerial complexity, limiting the speed of digital transformation.

2.2. Employee Skill Gaps and Digital Readiness

Uneven digital readiness among staff is a big human-centric concern for Indian NBFCs. A varied workforce of varying ages, education levels,

and technological exposure leads to inconsistent adaption to fintech platforms. While digitally talented individuals adapt fast, others struggle owing to a lack of digital literacy and training, resulting in reliance on a small number of tech-savvy employees, frustration, and underutilization of fintech capabilities.

2.3. Technostress and Work Pressure

Fintech adoption has also increased technological stress inside NBFCs. Continuous system upgrades, digital performance dashboards, and real-time monitoring have raised job pressures and performance standards. Employees must swiftly adapt to new technology while reaching strict productivity and turnaround requirements. This frequently results in cognitive overload, worry, and fear of skill obsolescence. When fintech technologies are regarded as tools for monitoring rather than help, job satisfaction and employee engagement suffer.

2.4. Resistance to Change and Cultural Barriers

Another major issue is resistance to change. Employees used to conventional, relationship-based work methods may see fintech as a threat to job security or professional relevance. This opposition grows worse when employees are excluded from technology-related decision-making. Rigid hierarchies and poor internal communication erode employee trust in digital projects, restricting their embrace of fintech-driven transformation.

2.5. Technological and Operational Challenges

At the operational level, NBFCs confront challenges like as system stability, cybersecurity, data accuracy, and vendor dependency. Technical issues, system downtime, and poor user interfaces disrupt workflows and undermine employee confidence. Concerns about data security and compliance exacerbate psychological pressure, especially in high-volume lending contexts.

Implications of Challenges for Employee Engagement

The combination of organizational, technological, and employee-related difficulties has a direct impact on employee engagement in Indian NBFCs. When fintech adoption is not accompanied by sufficient training, communication, and change management, people become disengaged, emotionally exhausted, and lose corporate commitment.

These issues demonstrate that fintech adoption is more than just a technological exercise; it is also a challenging organizational shift. Failure to address human and cultural elements might drastically reduce the engagement gains expected from fintech projects.

3. Opportunities from Fintech Adoption for Employee Engagement and Performance in NBFCs:

Beyond efficiency savings, fintech adoption opens up new avenues for improving employee engagement and organizational performance in NBFCs. Fintech companies may help people perform their jobs more successfully and confidently by improving work procedures, role clarity, and access to data-driven insights. When combined with training and managerial assistance, these possibilities improve employee motivation, engagement, and overall organizational outcomes.

Stakeholder-Based Opportunities Created by Fintech Adoption in Indian NBFCs			
Stakeholder Group	Fintech-Enabled Opportunities	Impact on Employee Engagement	Benefits for Indian NBFCs
Employees	• Digital skill development and analytics tools	• Increased job involvement and career growth	• Skilled, motivated workforce
NBFC Management	• Data-driven decision making and workforce optimization	• Clearer goals and supportive management	• Efficient operations and informed decisions
Customers	• Faster loan processing and digital onboarding	• Greater job satisfaction and customer impact	• Improved customer reach and retention
Organizational Performance	• Process automation and scalable growth	• Higher commitment and tech-savvy roles	• Operational efficiency and competitive edge
Regulators & Financial Ecosystem	• Enhanced compliance and digital reporting	• Reduced stress with standardized processes	• Stronger compliance and sector trust

Source: Compiled by Author

3.1. Opportunities for Employees

Fintech adoption in Indian NBFCs has opened up numerous chances for employees by improving skill development, job enrichment, and career adaptability. The growing use of digital lending platforms, analytics-driven tools, and mobile interfaces has broadened technological and analytical capabilities. Employees get a higher sense of expertise, professional relevance, and engagement as their responsibilities change to data interpretation and customer advising functions, which is supported by ongoing learning and increased career confidence.

3.2. Opportunities for NBFC Management and Leadership

Fintech adoption allows NBFC management to improve worker productivity,

strategically rethink roles, and reinforce performance management systems. Digital systems enable real-time operational visibility, allowing for more informed decisions and effective resource allocation. Fintech also enables data-driven leadership by using analytics to monitor risk and evaluate performance, thereby aligning employee efforts with company goals and creating accountability, innovation, and long-term competitiveness.

3.3. Opportunities for Customers and Financial Inclusion

Customers benefit from fintech adoption because it improves the accessibility, speed, and transparency of NBFC services. Digital onboarding, mobile loan applications, and faster credit approvals lower the entrance barriers for marginalized communities, particularly in semi-urban and rural locations. This enhances NBFCs' commitment to financial inclusion, which is a key development aim in India. Employees in digitally connected customer service professions frequently report higher job satisfaction due to meaningful interactions and tangible societal impact, which reinforces their sense of purpose and engagement.

3.4. Opportunities for Organizational Performance and Competitiveness

At the corporate level, fintech enables operational efficiency, cost optimization, and scalable expansion. Automation shortens processing time and eliminates errors, while analytics-driven insights enhance credit quality and risk management. Employee engagement is crucial for turning technology capabilities into higher service quality, customer satisfaction, and market responsiveness.

3.5. Opportunities for Regulators and the Financial Ecosystem

Fintech adoption enhances transparency, uniformity, and regulatory compliance by utilizing digital records and real-time reporting. It also benefits the larger financial ecosystem by fostering innovation, collaboration with fintech firms, and the creation of durable digital financial infrastructure in India.

6. Conclusion

This study shows that fintech adoption in Indian NBFCs is more than a technological update; it is a significant organizational reform that has a direct impact on employee engagement.

According to the research, NBFCs have implemented fintech gradually and on a need-basis, largely to improve digital lending, automation, and data-driven decision making. These innovations have transformed ordinary work practices, lowering manual activities and boosting the importance of analytical, digital, and customer-oriented positions. When accompanied by sufficient training, clear communication, and managerial leadership, fintech adoption boosts employees' confidence, competency, and perceived relevance, resulting in increased engagement. However, the study also shows that technology alone does not automatically boost engagement; its influence is heavily dependent on how firms handle the human side of digital transformation.

The report also outlines three limitations that could restrict fintech's positive impact on employees. Many NBFCs continue to confront financial and infrastructure constraints, challenges integrating fintech solutions with legacy systems, and regulatory pressures. Employees typically experience stress and anxiety as a result of uneven digital skills, a lack of readiness for change, and increased performance expectations. Continuous system changes, greater digital monitoring, and higher productivity targets can exacerbate anxiety and resistance, especially when staff feel under-supported. These findings highlight fintech adoption as a complicated transformation process that necessitates ongoing investment in skill development, supportive leadership, and attention to employee concerns.

Despite these hurdles, fintech adoption provides significant opportunity for improving employee engagement and organizational success. Employees can use digital technologies to learn new skills, execute more complex tasks, and make a more significant contribution to customer service and financial inclusion. Fintech benefits management by improving coordination, transparency, and decision-making. Fintech, when implemented with a human-centered strategy that stresses learning, involvement, and trust, has the potential to be a significant enabler of long-term employee engagement and competitiveness for Indian NBFCs.

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