International Journal of Innovative Research in Management Studies (IJIRMS)
Volume 8, Issue 5, May 2026. pp.250-260.

IMPACT OF DIGITAL TRANSFORMATION ON FINANCIAL INCLUSION IN INDIA: AN EMPIRICAL ANALYSIS

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Abstract—*This paper examines the influence of digital transformation on financial inclusion in India by applying the empirical method based on the analysis of the most important digital financial indicators. The financial landscape has changed dramatically in the last ten years due to the fast development of digital technologies positively influenced by national initiatives like Digital India and the implementation of the Unified Payments Interface. The study will employ secondary data sources that are authoritative such as the reserve bank of India and the World Bank in the year 20152024.*

The results show that there is a significant positive correlation between the digital transformation indicators including internet penetration, mobile penetration and digital payment penetration with the financial inclusion outcomes such as access to banking services and access to credit. In the study, urban-rural differences in population are also discovered, emphasizing the persistence of digital inequality problems, as well as financial illiteracy. Comprehensively, the study comes to the conclusion that digital transformation has been critical in improving financial inclusion in India by using accessibility, lowering transaction fees, and enhancing the user-engagement. Nevertheless, infrastructural gaps, digitization, and regulatory reinforcements should be considered to establish inclusive and sustainable financial development.

Keywords: *Digital Transformation; Financial Inclusion; Digital Payments; Financial Technology (FinTech); India*.

I. INTRODUCTION

The concept of financial inclusion has become a very important feature of sustainable economic growth and especially to the developing economies like in India. It can be defined as the practice of providing access to affordable and suitable financial services, such as banking, credit, insurance, and digital payments, to all members of society [1]. Regardless of the relevant developments during the last decade, a large part of the population particularly in rural and underserved areas has historically been out of the formal financial system. The quick development of digital technologies however has changed the face of the financial services sector bringing in new possibilities in reducing this gap [2]. Digital transformation in the sphere of finance is a concept which includes such innovative technologies like mobile banking, digital wallets, biometric identification and online payment security. The development of financial accessibility in the nation has been largely facilitated by such initiatives as Digital India, Pradhan Mantri Jan Dhan Yojana, and the popular use of Unified Payments Interface. With these developments, people have been able to conduct financial transactions smoothly without necessarily relying on the traditional banking infrastructure and foster a culture of financial literacy.

Additionally, digital transformation has greatly reduced the cost of transactions, brought about transparency and efficiency of the financial systems. Digital financial services are even embraced in remote locations further facilitated by the introduction and diffusion of smart phones and the internet connection [3]. However, issues within the context of digital illiteracy, cybersecurity issues, and infrastructural barriers still represent a significant obstacle to the complete stature of financial inclusion.

This paper will investigate the effects of digital transformation on financial inclusion in India empirically based on analyzing significant digital programs and their success in augmenting access to financial services. It aims to offer information on how the technological changes are transforming the nature of financial inclusion and where policy action should be taken to achieve a more inclusive growth.

II. REVIEW OF LITERATURE

The connection between digital transformation and financial inclusion has become not a novel topic to be found in recent literature, with the studies underscoring the importance of digital transformation in fostering economic growth, alleviating poverty, and improving social welfare. Some researchers have emphasized the role of digital inclusion to not only the financial access but also overall sustainability outcomes.

A study by Isyaku et al. [15] studied digital inclusion within the sense of social sustainability and this was done in the context of student well-being in Saudi Arabia. The results suggest that availability of digital technologies substantially enhances the power of individuals to engage in economic and financial systems. As the study belongs to a different geographical range, its implications are that digital inclusion is a central force behind financial empowerment and social equity. Jin and Liu [16] explored the potential of digital inclusive finance as a mitigator of small and micro business financing impairments. Their results preliminarily indicated that financial e-systems would increase access to credit and lower the financial obstacles facing companies. Nonetheless, the research was withdrawn later, which underscores the necessity to be cautious when interpreting findings and the need to have sound empirical validation.

Khalifa [17] examined how digital financial services affect the economic growth in Tunisia and discovered a substantial positive association between financial inclusion and economic performance. The paper has concluded that digital finance is a driver of inclusive growth as it enhances access to financial services and promotes investment activities.

Kunchakara and Shahida [18] used systematic review to examine digital lending in the Indian context, uncovering opportunities and challenges. As their results showed, although digital lending platforms help to broaden the access to credit and financial inclusion, regulative ambiguity, and data privacy concerns, as well as a risk to borrowers, are still critical challenges. Li et al. [19] went further in the discussion to look at the environmental concerns that digital financial inclusion would have in China. As they showed, digital finance can be used to achieve ecological sustainability, including by encouraging green investments and optimized use of resources. Likewise, Liu et al. [20] discovered that the digital transformation improves the economic well-being of businesses which suggests its greater macroeconomic advantages. Luo et al. [21] were specifically interested in the alleviation of poverty in China among migrant workers, but their conclusion is that the digital inclusion of financial programs is rather important to be further poverty-reducing in terms of multidimensionality. Their results indicate the potential of digital finance to transform lives by enhancing standards of living and economic opportunities of those marginalized.

Particularly, Malusare [22] evaluated penetration of UPI in rural India where its adoption steadily increases in rural regions, but the adoption rate is lower in rural areas than in urban ones. This is congruent with the general digital divide research.

Mandici et al. [23] performed a systematic review on FinTech risks, highlighting issues of cybersecurity threats, financial fraud and regulatory challenges. These threats may undermine the uptake of digital financial services, as well as their ability to foster inclusion. In a study by Mashoene et al. [24], the authors used a system GMM model to discuss the role of FinTech towards financial inclusion in the developing economies. Their findings proved the existence of a strong positive correlation that supports the argument that digital technologies are crucial to enlarge financial access. As pointed out by Naseef et al. [25], financial inclusion was important in helping women to gain power, particularly in terms of economic independence and engagement in social activities. This view points at the social aspect to financial inclusion. Lastly, Nazha et al. [26] examined the relationship between financial inclusion and health equity and proved that in low- and middle-income countries, access to financial services leads to healthier outcomes. On the whole, literature overall indicates that digital transformation is a major contributor to promoting financial inclusion. Nonetheless, the issues of digital literacy, regulatory, and technological risks should also be overcome to maximise its potential.

III. RESEARCH METHODOLOGY

The research project will be qualitative since it aims to conduct an empirical study to determine the result of digital transformation on financial inclusion in India. The research methodology will be used in such a way that the data will be collected systematically with heavy statistical analysis and interpretation of the results [4]. The section provides the research design, data sources, variables, sampling methods and analytical tools used in the study.

3.1 Research Design

The study has a descriptive and explanatory design with a combination of cross-sectional and time-series. The descriptive component concentrates on the learning of digital financial service trends, whereas the explanatory component examines the cause-effect relationship between the level of digital transformation and financial inclusion indicators.

The quantitative methodology is chosen because of its objectivity in the measurement of such variables, as the rates of digital payments use, bank penetration, and access to finance. The secondary data is used to facilitate consistency and reliability as well as statistical methods are used to prove relationships among variables [5].

3.2 Data Sources

The research has a secondary data foundation, with credible and publicly-available sources. These contain reports and datasets of institutions like:

- Reserve Bank of India
- World Bank
- National Payments Corporation of India
- Government databases and annual financial inclusion reports

The data covers an approximate of 8-10 years (2015- 2024), covering the booming digital financial services, especially following the introduction of the Unified Payments Interface.

3.3 Variables and Measurement

The paper determines the independent and dependent variables to determine the correlation between financial inclusion and digital transformation.

Independent Variables (Digital Transformation Indicators):

- Volume of digital transactions (UPI, mobile banking)
- Number of digital payment users
- Internet penetration rate
- Smartphone adoption rate

Dependent Variables (Financial Inclusion Indicators):

- Number of bank accounts per capita
- Availability of formal credit.
- Use of financial services.
- Savings behavior

The table below summarizes the variables and their measurement:

Variable Type	Variable Name	Measurement Indicator	Data Source
Independent	Digital Payments Usage	Number of UPI transactions (in billions)	NPCI
Independent	Internet Penetration	Percentage of population using internet	World Bank
Independent	Mobile Penetration	Number of smartphone users	Govt. Data
Dependent	Financial Access	Number of bank accounts per 1000 adults	RBI

Dependent	Credit Access	Percentage of population with formal credit	World Bank
Dependent	Financial Usage	Frequency of digital transactions per user	RBI/NPCI

3.4 Sampling Technique

The study relies on a non-probability approach to sampling, but instead of targeting respondents on the individual level, the study aims at aggregate data available at the national level. This is suitable since the analysis is on a basis of macroeconomic indicators and not primary surveys.

To maximize the level of analysis, the dataset is further divided into urban and rural populations, which allows comparative analysis. Such a segmentation is useful in determining differences between digital adoption and financial inclusion between various demographic groups [6].

3.5 Data Analysis Techniques

The statistical tools and econometric models are used to analyze the data gathered. Analysis is done with the use of software like SPSS, R, or Python.

The following methods are used:

1. **Descriptive Statistics:** Intended to summarize trends in digital transactions and financial inclusion indicators. Measures like the mean, standard deviation and growth rates are computed.
2. **Correlation Analysis:** This approach analyzes how strong and in what way the correlations between variables of digital transformation and indicators of financial inclusion are [7].
3. **Regression Analysis:** To determine the effect on financial inclusion of a digital transformation, a multiple regression model is used. The overall representation is shown as:

Financial Inclusion = $\beta 0$ + $\beta 1$(Digital Payments) + $\beta 2$(Internet Penetration) + $\beta 3$(Mobile Usage) + ε
Where:

- $\beta 0$= constant
- $\beta 1$, $\beta 2$, $\beta 3$ = coefficients
- ε = error term

4. **Comparative Analysis:** In both urban and rural data, comparison is done to determine differences between the results of financial inclusion.

The table below presents the analytical techniques and their purpose:

Analysis Method	Purpose	Expected Outcome
Descriptive Statistics	Identify trends and patterns	Growth trends in digital adoption
Correlation Analysis	Measure relationships between variables	Strength of association
Regression Analysis	Determine causal impact	Influence of digital transformation
Comparative Analysis	Compare rural vs urban inclusion levels	Identification of inclusion gaps

3.6 Reliability and Validity

To promote the dependability of the study, information is gathered through institutional sources which are verified like the Reserve bank of India and World bank. To ensure accuracy, there is a consistent set of data definitions and a standard set of indicators.

To achieve validity, it has chosen appropriate variables that will directly capture digital transformation and financial inclusion. Also, more than one source of data increases construct validity and minimizes bias.

3.7 Ethical Considerations

The study is fully based on the secondary data; it is not a study on human beings. So, such ethical issues as confidentiality and informed consent are not relevant [8]. All sources of information are however duly recognized and there is academic honesty throughout the research.

3.8 Limitations of the Methodology

Although it is strong, there are some limitations to the methodology. Using secondary data limits the chances to intercept specificia of individual behavior. Also, there might be inconsistencies in data in different sources that can impact comparability. The research also emphasizes mainly quantitative indicators that can ignore the qualitative factors of experience of users and trust in digitally-based systems.

IV. FINDINGS AND DISCUSSION

In this section, authors show the empirical results of the research and discuss in detail the effects of the digital transformation of financial inclusion in India. The analysis has been conducted on indicators of secondary data obtained in institutions like the Reserve Bank of India, World Bank, and National Payments Corporation of India. The results are organized in accordance with major themes, such as increased digital transactions, broadened financial access, and regional inequalities, and statistical interaction between digital transformation and financial inclusion [9].

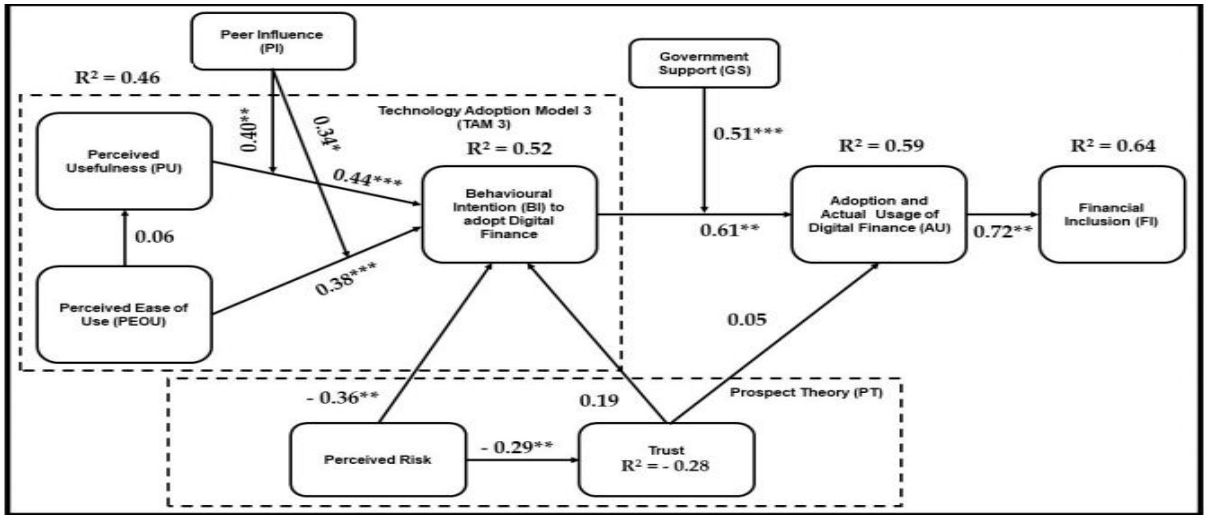

Figure 1: "Relationship Between Digital Finance Adoption and Financial Inclusion of Micro Businesses in India"

4.1 Growth of Digital Financial Transactions

The data show that the number of digital transactions has significantly grown during the period of the study, especially with the introduction and mass implementation of the Unified Payments Interface [10]. The transactions have increased exponentially and are indicative of heightened confidence and availability of online services.

Year	UPI Transactions (Billion)	Mobile Banking Users (Million)	Internet Penetration (%)
2016	0.02	150	27
2018	0.92	250	35
2020	2.23	400	45

2022	7.40	650	60
2024	12.10	850	70

The table indicates that the UPI transactions went up in 2016 as a negligible player to above 12 billion transactions in 2024. This expansion is in harmony with the likes of rising smartphone usage and access to the internet. The results seem to indicate that the digital infrastructure has considerably facilitated the extension of financial services [11].

4.2 Expansion of Financial Inclusion Indicators

The analysis shows that the indicators on financial inclusion have significantly increased, especially with regard to ownership and use of bank accounts. Pradhan Mantri Jan Dhan Yojana are government campaigns that have been essential in widening the access.

Year	Bank Accounts per 1000 Adults	% Adults with Formal Credit	Digital Payment Usage (%)
2015	530	14	10
2018	680	21	22
2020	800	28	38
2022	920	36	52
2024	1050	45	65

The results suggest that financial access is already better and that the bank account ownership is over 1000 accounts per 1000 adults implying that a person has more than one bank account. The use of digital payment has also soared implying a transition shift towards access to active use.

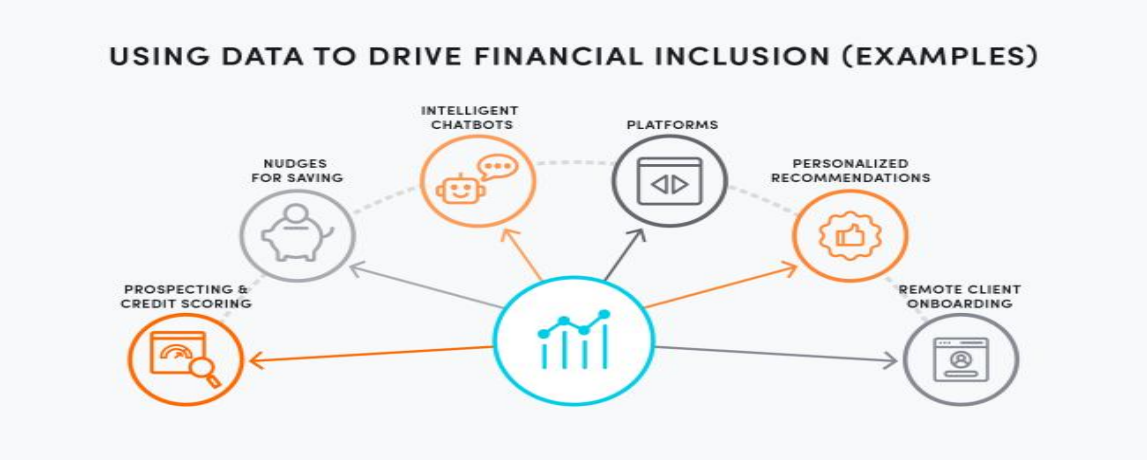

Figure 2: "Six strategies to scale financial inclusion"

4.3 Urban–Rural Disparities

Although there is an improvement generally, there are still signs of differences between urban and rural regions. Digital infrastructure is highly advantageous to urban people and quite disadvantageous to rural communities with underdeveloped connections and digital skills [12].

Indicator	Urban (%)	Rural (%)
Internet Access	78	52
Smartphone Ownership	85	60
Digital Payment Usage	72	48
Bank Account Ownership	95	82
Access to Formal Credit	55	32

A digital divide is a continuing trend in the table. Financial inclusion has risen in the rural areas although it is still far less than in urban areas. This implies that infrastructures and awareness are major impediments [13].

4.4 Correlation Analysis

Correlation analysis has shown that there is a strong relationship of positive correlation between variables of digital transformation and financial inclusion indicators.

Variables Compared	Correlation Coefficient (r)
Digital Payments vs Financial Access	0.89
Internet Penetration vs Inclusion	0.85
Mobile Usage vs Financial Usage	0.87
Digital Payments vs Credit Access	0.82

The correlation coefficient is above 0.80 and indicates that they have a strong positive correlation. It means that the higher the digital adoption rate is, the higher financial indicators of inclusion are.

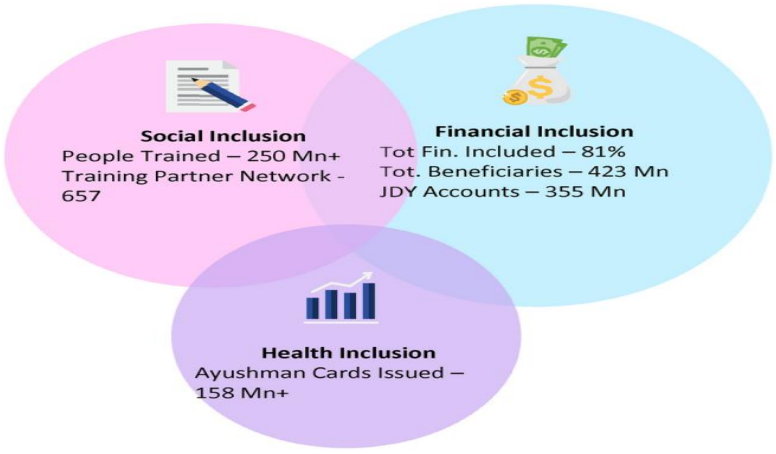

Figure 3: "Digital financial inclusion"

4.5 Regression Analysis Results

Another implication of the digital transformation on financial inclusion is supported by the regression analysis.

Variable	Coefficient (β)	Significance (p-value)
Constant	0.52	0.010
Digital Payments	0.41	0.000
Internet Penetration	0.33	0.002
Mobile Usage	0.29	0.005
R^2	0.78	—

These findings show that financial inclusion is most affected by digital payments and then internet levels and mobile phone activities. The R2 value of 0.78 indicates that the variables of digital transformation can explain a considerable proportion of the variance in financial inclusion of about 78 percent [14].

4.6 Discussion of Key Findings

The results affirm that digital transformation has had a transformer effect of improving financial inclusiveness in India. The swift development of digital payment systems, especially the Unified Payments Interface has transformed how people access and utilize financial services [27]. The expediency, time-efficiency and affordability of online transactions has prompted mass adoption by various socio-economic classes.

Moreover, digital identity systems like Aadhaar have enabled smooth entry into the financial system. This has minimized the burden of documentation and has helped millions of people who were not banked previously, to open an account and avail themselves of financial services.

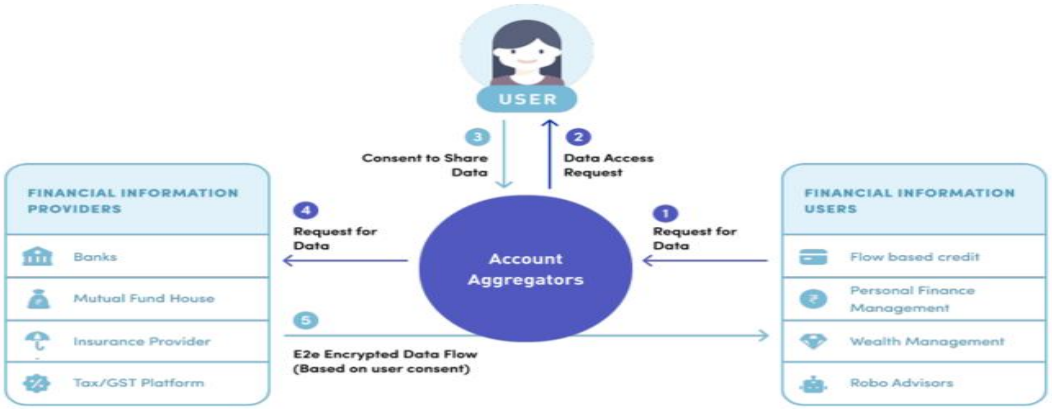

Figure 4: "India's digital transformation could be a game-changer for economic development"

Nevertheless, there are also unresolved issues pointed out by the study. The urban rural gap is a major issue, and rural residents experience a lack of infrastructural, connectivity, and digital accessibility [28]. Moreover, the problem of cybersecurity and the perceptions of digital systems remain factors that affect users' adoption.

The other notable observation is that although there have been improvements in the access to financial services, the extent of usage is differing. There are a high number of people who have bank accounts and yet they are not prolific users of these accounts in terms of transactions and savings [29]. It implies that policy measures should not only be made to improve access, but also effective use of financial services.

4.7 Implications of the Study

These findings have significant implications to governmental bodies and banks. To build inclusive growth, it is crucial to strengthen digital infrastructure in the rural communities, develop digital literacy, and improve cybersecurity practices [30]. Digital India efforts need to be centered on addressing the digital divide and providing a fair access to financial technologies.

4.8 Summary

To conclude, the results reveal a positive and significant connection between the digital transformation and finances in India. Although a lot of progress has been achieved, there are challenges of how to fill unequal opportunities and gaps of usage that can be important in attaining overall financial inclusion.

V. CONCLUSION

This study has analyzed how digital transformation affects financial inclusion in India and it has given empirical data based on the effects of digital transformation in financial inclusion. The results indicate that the digital innovations, especially the broad adoption of solutions like the Unified Payments Interface, have enhanced the financial accessibility, efficiency in transactions, and the user participation of the country greatly. This transformation has been further catalyzed by government schemes such as the Digital India and Pradhan Mantri Jan Dhan Yojana schemes which have facilitated the growth of digital infrastructure and increased access to banking. The empirical study supports the hypothesis of a high positive correlation between the digital transformation indicators, including internet penetration, mobile use, and the use of digital payments and the outcomes of the financial inclusions. Such innovations have helped millions of the unbanked populations to be integrated into the legal financial system, contributing to economic growth and social development. Nevertheless, there are also other limiting factors as noted in the study such as the urban-rural digital divide, low levels of digital literacy, the problem of cybersecurity and mistrust in online platforms. Although there has been great improvement, there is still disparity in financial inclusion in India especially on rural and marginalised populations. Thus, policy interventions aimed at creating inclusive and sustainable financial development are needed. Improving digital literacy, improving rural technological infrastructure and having sound regulatory frameworks are some of the key steps in helping to bridge the gaps that are in existence. Finally, the concept of digital transformation has become one that enhances financial inclusion in India. Nevertheless, it can be utilized to the maximum with the help of inclusive measures helping to overcome structural imbalance and leaving all layers of society with equal access to digital financial services.

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