

Digital Banking as a Catalyst for Inclusive Growth: Evidence from Rural and Semi-Urban Regions

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Abstract : Digital banking has emerged as a transformative force in modern financial systems, enabling greater accessibility, efficiency, and transparency in the delivery of financial services. In developing economies such as India, digital banking plays a crucial role in promoting inclusive growth by extending financial services to underserved and marginalized populations, particularly in rural and semi-urban regions. This study examines the extent to which digital banking acts as a catalyst for inclusive growth by analyzing user awareness, adoption behavior, infrastructural factors, and perceived socio-economic impact. The study is based on primary data collected from 100 respondents across rural and semi-urban areas, representing diverse socio-economic groups including farmers, micro-entrepreneurs, and salaried individuals. A structured questionnaire was employed to capture key dimensions such as digital banking usage, ease of access, trust, financial literacy, and perceived benefits. The analysis utilizes statistical techniques including descriptive statistics, regression analysis, and clustering methods to examine the relationship between digital banking adoption and inclusive growth outcomes. The findings indicate that digital banking significantly enhances financial inclusion by improving access to banking services, facilitating efficient transactions, and supporting income management. However, adoption levels are influenced by factors such as digital literacy, network connectivity, and trust in digital platforms. The results further highlight that while digital banking contributes positively to economic participation and financial empowerment, infrastructural and awareness-related challenges continue to limit its full potential in rural contexts. The study concludes that strengthening digital infrastructure, promoting financial literacy, and enhancing user trust are essential for leveraging digital banking as a sustainable driver of inclusive growth.

Keywords Digital Banking, Financial Inclusion, Inclusive Growth, Rural Development, UTAUT, Financial Literacy

I. INTRODUCTION

The rapid advancement of information and communication technologies has fundamentally transformed the global financial landscape, leading to the emergence of digital banking as a key driver of financial innovation. Digital banking encompasses a wide range of services, including mobile banking, internet banking, digital payments, and automated financial transactions, which enable users to access banking services anytime and anywhere. In recent years, digital banking has gained significant importance in developing economies such as India, where it plays a critical role in expanding financial access and promoting inclusive growth [1].

Inclusive growth, which focuses on ensuring equitable access to economic opportunities and financial resources, remains a central objective of economic policy in emerging economies. In this context, digital banking serves as an effective tool for bridging the gap between formal financial institutions and underserved populations, particularly in rural and semi-urban regions. Government initiatives such as financial inclusion programs, digital payment systems, and direct benefit transfers have accelerated the adoption of digital banking services, thereby enhancing financial participation and reducing dependency on cash-based transactions [2].

The Indian banking sector has witnessed a significant shift toward digitalization, driven by increased smartphone penetration, improved internet connectivity, and supportive regulatory frameworks. Commercial banks have actively adopted digital platforms to enhance service delivery, reduce operational costs, and improve customer experience. At the same time, cooperative and regional rural banks are gradually transitioning toward digital systems, although their adoption remains constrained by infrastructural limitations and resource constraints [3]. This digital divide between different banking institutions and regions highlights the need for focused research on digital banking adoption in rural and semi-urban areas. Despite the potential benefits of digital banking, its adoption is influenced by multiple behavioral, technological, and institutional factors. The Technology Acceptance Model (TAM) suggests that perceived usefulness and perceived ease of use significantly influence user adoption of digital technologies [4]. Similarly, the Unified Theory of Acceptance and Use of Technology (UTAUT) identifies performance expectancy, effort expectancy, social influence, and facilitating conditions as key determinants of user behavior [5]. In rural and semi-urban contexts, additional factors such as digital literacy, trust in digital platforms, and network connectivity further affect the adoption and effective utilization of digital banking services. From a developmental perspective, digital banking contributes to inclusive growth by improving access to financial services, enabling efficient transactions, supporting small businesses, and facilitating government welfare delivery mechanisms. It empowers individuals by enhancing financial awareness, promoting savings behavior, and providing access to credit and insurance services. However, challenges such as limited digital literacy, cybersecurity concerns, infrastructural gaps, and resistance to technological change continue to hinder widespread adoption in certain regions [6]. Against this backdrop, the present study examines the role of digital banking as a catalyst for inclusive growth in rural and semi-urban regions. The study focuses on analyzing user awareness, adoption behavior, and the socio-economic impact of digital banking services among diverse population groups. It also explores the challenges and barriers associated with digital banking adoption and identifies key factors influencing its effectiveness in promoting financial inclusion.

The findings of this study are expected to contribute to the existing literature on digital banking and inclusive growth by providing empirical evidence from regional contexts. Furthermore, the study offers practical insights for policymakers, financial institutions, and stakeholders to design strategies that enhance digital banking adoption and strengthen inclusive financial systems.

II. LITERATURE SURVEY

The literature on digital banking broadly emphasizes its transformative role in enhancing financial access, improving service delivery, and promoting inclusive economic development. Early studies define digital banking as the integration of information and communication technologies into banking services to facilitate secure, efficient, and real-time financial transactions [1]. Researchers argue that digital banking enables financial institutions to move beyond traditional branch-based operations toward customer-centric, technology-driven service models, thereby improving operational efficiency and accessibility [2]. However, empirical evidence suggests that the effectiveness of digital banking depends significantly on factors such as digital infrastructure, user awareness, trust, and financial literacy.

Globally, research highlights that digital banking adoption has been driven by the rapid expansion of mobile technologies, internet penetration, and advancements in financial technologies (FinTech). Studies indicate that countries with higher levels of digital infrastructure and regulatory support have experienced significant improvements in financial inclusion and transaction efficiency [3]. Digital payment systems, mobile wallets, and online banking platforms have reduced transaction costs and enhanced financial accessibility, particularly in remote and underserved regions

[4]. Nevertheless, adoption remains uneven across regions, especially in developing economies where infrastructural and socio-economic disparities persist.

In the Indian context, digital banking has gained considerable momentum due to government initiatives promoting financial inclusion and digitalization. Programs such as digital payment systems, direct benefit transfers, and financial inclusion schemes have significantly expanded access to formal banking services [5]. Researchers note that while urban populations have rapidly adopted digital banking, its diffusion in rural and semi-urban regions is relatively gradual due to challenges such as limited digital literacy, poor network connectivity, and trust issues [6]. These challenges highlight the need for region-specific studies focusing on digital banking adoption in non-metropolitan areas.

Several studies have examined the role of digital banking in promoting financial inclusion. Evidence suggests that digital banking enables individuals to access banking services without physical branch visits, thereby reducing geographical barriers and improving financial participation [7]. In rural areas, digital banking has facilitated access to savings accounts, credit facilities, and government welfare benefits, contributing to socio-economic development [8]. However, the extent of impact varies depending on user awareness, accessibility, and institutional support. Behavioral factors play a significant role in influencing digital banking adoption. The Technology Acceptance Model (TAM) identifies perceived usefulness and perceived ease of use as key determinants of user acceptance of digital technologies [9]. Similarly, the Unified Theory of Acceptance and Use of Technology (UTAUT) highlights performance expectancy, effort expectancy, social influence, and facilitating conditions as critical drivers of adoption behavior [10]. These models have been widely applied in digital banking research to understand user attitudes and behavioral intentions, particularly in developing country contexts [11]. Trust and security concerns constitute another important dimension in digital banking adoption. Studies indicate that perceived risks related to data privacy, fraud, and cybersecurity significantly influence user willingness to adopt digital banking services [12]. In rural and semi-urban regions, lack of trust in digital platforms often acts as a barrier, limiting the effective utilization of banking technologies [13]. Building user confidence through secure systems and awareness programs is therefore essential for enhancing adoption levels. Infrastructure and digital readiness are also critical determinants of digital banking usage. Research highlights that reliable internet connectivity, smartphone availability, and access to digital devices significantly influence adoption, particularly in rural areas [14]. Limited infrastructure and network issues often hinder consistent usage, thereby affecting the overall effectiveness of digital banking initiatives [15]. Another important stream of literature focuses on the impact of digital banking on inclusive growth. Studies suggest that digital banking contributes to economic development by improving access to financial services, supporting small businesses, and enhancing income management capabilities [16]. It also plays a crucial role in empowering marginalized groups, including women and rural populations, by providing access to financial resources and promoting financial independence [17]. However, the benefits are not uniformly distributed, and disparities persist across different socio-economic groups. Recent empirical studies have increasingly utilized quantitative techniques such as regression analysis, factor analysis, and structural equation modeling (SEM) to examine the relationship between digital banking adoption and inclusive growth outcomes [18]. These studies provide evidence that awareness, infrastructure, trust, and behavioral factors significantly influence the success of digital banking initiatives [19]. However, most existing research is concentrated in urban or national-level contexts, with limited focus on district-level or regional analysis. Despite the growing body of literature, there remains a noticeable research gap in understanding digital banking adoption and its impact on inclusive growth in rural and semi-urban regions, particularly in the context of Karnataka. Existing studies often overlook the role of cooperative banking systems and the specific challenges faced by users in emerging regional economies. Furthermore, limited research integrates behavioral models such as TAM and UTAUT with inclusive growth perspectives in a single analytical framework [20]. In summary, the literature indicates that digital banking has substantial potential to promote inclusive growth by enhancing financial access, reducing transaction costs, and supporting socio-economic development. However, its adoption and impact are influenced by multiple behavioral, technological, and institutional factors. The limited focus on rural and semi-urban regions highlights the need for context-specific empirical research. Addressing this gap, the present study examines the role of digital banking as a catalyst for inclusive growth, with a focus on user adoption, infrastructural challenges, and socio-economic outcomes in selected regional contexts.

III. CONCEPTUAL ANALYSIS AND PROPOSED ANALYTICAL FRAMEWORK

This study adopts a multi-dimensional statistical approach to examine digital banking as a catalyst for inclusive growth. Unlike traditional models that rely on single-equation estimation, the proposed framework treats digital banking adoption as a progressive transformation process and models it using stage-wise statistical constructs and composite indices.

THE FRAMEWORK INTEGRATES THREE KEY COMPONENTS:

1. **DIGITAL BANKING READINESS**
2. **ADOPTION INTENSITY**
3. **INCLUSIVE GROWTH OUTCOME**

A. DIGITAL BANKING READINESS INDEX (DBRI)

INSTEAD OF BINARY ADOPTION, THE STUDY CONSTRUCTS A **DIGITAL BANKING READINESS INDEX (DBRI)**:

$$DBRI_i = \frac{1}{n} \sum_{j=1}^n S_{ij}$$

WHERE:

- S_{ij} = STANDARDIZED SCORE OF INDICATORS (ACCESS, LITERACY, AWARENESS)
- n = NUMBER OF INDICATORS

B. ADOPTION INTENSITY FUNCTION (AIF)

ADOPTION IS MODELED AS INTENSITY (NOT YES/NO):

$$AIF_i = \frac{\sum_{k=1}^m U_{ik} \cdot f_{ik}}{\sum_{k=1}^m f_{ik}}$$

WHERE:

- U_{ik} = USAGE LEVEL OF SERVICE k
- f_{ik} = FREQUENCY OF USAGE

C. DIGITAL TRUST COEFFICIENT (DTC)

TO INCORPORATE BEHAVIORAL RISK:

$$DTC_i = \frac{T_i - R_i}{T_i + R_i}$$

WHERE:

- T_i = TRUST PERCEPTION SCORE
- R_i = PERCEIVED RISK SCORE

D. INCLUSION IMPACT FUNCTION (IIF)

INCLUSIVE GROWTH IS MODELED AS A COMPOSITE FUNCTIONAL OUTCOME:

$$IIF_i = \alpha(FI_i) + \beta(EA_i) + \gamma(IM_i)$$

WHERE:

- FI_i = FINANCIAL INCLUSION SCORE
- EA_i = ECONOMIC ACTIVITY PARTICIPATION
- IM_i = INCOME MANAGEMENT EFFICIENCY
- α, β, γ = WEIGHTS

E. TRANSITION PROBABILITY MODEL

INSTEAD OF REGRESSION, WE MODEL MOVEMENT ACROSS STAGES:

$$P_{ij} = \frac{N_{ij}}{\sum_j N_{ij}}$$

WHERE:

- P_{ij} = PROBABILITY OF MOVING FROM STAGE i TO j
- N_{ij} = OBSERVED TRANSITIONS

F. INTERACTION EFFECT MODEL

TO CAPTURE COMBINED EFFECTS:

$$IG_i = \theta_1 DBRI_i + \theta_2 AIF_i + \theta_3 DTC_i + \theta_4 (DBRI_i \times DTC_i) + \epsilon_i$$

G. VARIABILITY ANALYSIS (INEQUALITY IN INCLUSION)

TO MEASURE INEQUALITY ACROSS USERS:

$$CV = \frac{\sigma}{\mu}$$

WHERE:

- σ = STANDARD DEVIATION OF INCLUSION SCORES
- μ = MEAN

H. MODEL INTERPRETATION STRUCTURE

THIS FRAMEWORK ENABLES ANALYSIS OF:

- READINESS → ADOPTION → IMPACT CHAIN
- ROLE OF TRUST AS A BALANCING FACTOR
- INTENSITY VS BINARY USAGE DIFFERENCE
- INEQUALITY IN INCLUSION OUTCOMES

I. EXPECTED CONTRIBUTIONS

THE PROPOSED STATISTICAL FRAMEWORK PROVIDES:

- A SHIFT FROM BINARY ADOPTION → INTENSITY-BASED MODELING
- INTEGRATION OF TRUST-RISK DYNAMICS
- MEASUREMENT OF PRE-ADOPTION READINESS
- IDENTIFICATION OF TRANSITION GAPS
- INSIGHT INTO DISTRIBUTION OF INCLUSION BENEFIT

EXPERIMENT RESULTS AND DISCUSSION

The empirical implementation of the proposed **Digital Banking Inclusion Framework** provides comprehensive insights into how readiness, adoption intensity, trust dynamics, and behavioral transitions influence inclusive growth outcomes. The study is based on primary data collected from **100 respondents** across rural and semi-urban regions of Karnataka, representing diverse socio-economic groups including farmers, MSMEs, and salaried individuals.

The analysis employs **index construction, intensity modeling, trust coefficients, transition probabilities, interaction modeling, and variability measures** to capture the multi-dimensional nature of digital banking adoption and its impact.

1. Digital Banking Readiness Index (DBRI)**Table 1: DBRI Scores**

Indicator	Mean Score	Std. Dev
Access to Smartphone	0.72	0.18
Internet Connectivity	0.64	0.22
Digital Awareness	0.58	0.20
Financial Literacy	0.55	0.19

Overall DBRI = 0.62**Adoption Intensity Function (AIF)****Table 2: Adoption Intensity Levels**

Category	Mean AIF Score	Usage Level
High Users	0.74	Frequent usage
Moderate Users	0.56	Occasional usage
Low Users	0.33	Minimal usage

Digital Trust Coefficient (DTC)**Table 3: Trust–Risk Balance**

Component	Mean Score
Trust Level	0.68
Risk Perception	0.41

DTC = 0.25**Inclusion Impact Function (IIF)****Table 4: Inclusive Growth Indicators**

Indicator	Score
Financial Inclusion	0.70
Economic Activity	0.63
Income Management	0.59

Overall IIF = 0.64**Transition Probability Analysis****Table 5: Stage Transition Probabilities**

From → To	Probability
Access → Adoption	0.68
Adoption → Engagement	0.54
Engagement → Inclusion	0.61

Interaction Effect Model**Table 6: Interaction Results**

Variable	Coefficient	Significance
DBRI	0.42	**
AIF	0.51	***
DTC	0.37	**
DBRI × DTC	0.29	**

Variability Analysis**Table 7: Coefficient of Variation (CV)**

Variable	Mean	Std. Dev	CV
Inclusion Score	0.64	0.18	0.28

IV. COMBINED INTERPRETATION

The results provide a comprehensive understanding of how digital banking contributes to inclusive growth through a multi-stage and multi-dimensional process. The Digital Banking Readiness Index (DBRI) indicates a moderate level of preparedness among respondents, with relatively higher access to digital devices but lower levels of financial literacy and awareness. This suggests that infrastructural availability alone is insufficient to ensure effective adoption.

The Adoption Intensity Function (AIF) reveals that a significant proportion of respondents fall within the moderate usage category, indicating partial engagement with digital banking services. This aligns with the transition probability findings, where movement from access to adoption is relatively strong (0.68), but progression from adoption to sustained engagement is weaker (0.54), highlighting a critical drop-off stage in the inclusion process.

The Digital Trust Coefficient (DTC) reflects a positive but limited trust environment, suggesting that while users generally trust digital systems, perceived risks still act as a constraint on deeper engagement. This is further supported by the interaction model, where the combined effect of readiness and trust significantly influences inclusive growth outcomes. The presence of a statistically significant interaction term confirms that readiness alone cannot drive inclusion unless supported by trust in digital systems.

The Inclusion Impact Function (IIF) demonstrates that digital banking has a moderately strong positive effect on financial inclusion, economic participation, and income management. However, the variability analysis indicates a coefficient of variation of 0.28, suggesting that the benefits of digital banking are not uniformly distributed across respondents. This points to the existence of an inclusion gap, where certain groups benefit more than others despite similar access levels.

Overall, the findings indicate that digital banking acts as a catalyst for inclusive growth only when multiple conditions—readiness, sustained usage, and trust—are simultaneously satisfied. The results emphasize that policy interventions should not focus solely on expanding access but must address behavioral, infrastructural, and trust-related barriers to ensure equitable and effective inclusion outcomes.

V. Conclusion

This study examined the role of digital banking as a catalyst for inclusive growth in rural and semi-urban regions using a multi-dimensional analytical framework that incorporates readiness, adoption intensity, trust dynamics, and outcome-based measures. Unlike conventional approaches that treat digital banking adoption as a binary phenomenon, the present analysis conceptualized it as a progressive process involving access, engagement, and socio-economic integration. The empirical findings provide strong evidence that digital banking contributes positively to inclusive growth, but its effectiveness depends on the interaction of multiple enabling conditions.

The results indicate that while the overall level of digital readiness is moderate, characterized by relatively high device access but lower financial literacy and awareness, this readiness alone does not guarantee meaningful inclusion. The adoption intensity analysis shows that a majority of users remain in the moderate usage category, suggesting partial engagement with digital banking services rather than full integration into digital financial systems. This is further reinforced by the transition probability analysis, which highlights a noticeable decline in progression from initial adoption to sustained engagement, indicating the presence of behavioral and structural barriers.

The study also identifies trust as a critical determinant in the digital banking ecosystem. The Digital Trust Coefficient reflects a positive but constrained trust environment, where perceived risks related to security and reliability continue to influence user behavior. The interaction model confirms that trust significantly enhances the effect of digital readiness on inclusive growth outcomes, emphasizing that technological access must be complemented by user confidence to achieve effective results.

The Inclusion Impact Function demonstrates that digital banking contributes to improvements in financial inclusion, economic participation, and income management. However, the variability analysis reveals that these benefits are unevenly distributed across respondents, indicating the

persistence of an inclusion gap. This suggests that while digital banking has the potential to promote inclusive growth, its outcomes are influenced by disparities in awareness, usage behavior, and contextual factors.

Overall, the study concludes that digital banking acts as a catalyst for inclusive growth only when readiness, adoption intensity, and trust operate in alignment. Expanding access to digital banking services is a necessary but insufficient condition; sustained engagement and equitable outcomes require targeted interventions that address literacy, infrastructure, and trust-related challenges. The findings highlight the need for a holistic policy approach that integrates technological development with user-centric strategies, including financial education, awareness programs, and strengthening of digital security mechanisms.

From a broader perspective, the study contributes to the literature by providing a process-oriented and statistically grounded understanding of digital banking and inclusive growth. It shifts the focus from simple adoption metrics to a more nuanced analysis of how digital banking translates into socio-economic benefits. The insights generated are particularly relevant for policymakers, financial institutions, and development practitioners aiming to leverage digital banking as a tool for inclusive and sustainable economic development in emerging regional contexts.

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