The Impact of Digital Payment Adoption on Financial Inclusion in Salem and Erode Districts of Tamil Nadu

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Abstract:

The rapid proliferation of digital payments in India, catalysed by the Unified Payments Interface (UPI), has fundamentally reshaped the financial landscape, promising greater financial inclusion. This study investigates this impact within the specific socio-economic context of Salem and Erode districts in Tamil Nadu, which are major hubs for trade, textiles, and Micro, Small, and Medium Enterprises (MSMEs). A mixed-methods approach was employed, administering a structured questionnaire to 250 respondents—including students, salaried employees, and MSME entrepreneurs—and conducting follow-up semi-structured interviews with 15 participants.

The findings reveal that digital payments, particularly UPI, have significantly enhanced financial inclusion by improving accessibility, transaction speed, and transparency, leading to increased formal banking participation. However, persistent barriers such as cybersecurity apprehensions, digital illiteracy, and unreliable internet connectivity in semi-urban and rural pockets continue to impede universal adoption. Regression analysis confirmed a strong positive correlation (r = 0.64, p < 0.01) between digital adoption and financial inclusion metrics. The study concludes that while digital payments are a powerful tool for inclusion, a multi-stakeholder approach focusing on digital literacy, infrastructure development, and robust security frameworks is essential for realizing its full potential.

Keywords: Digital Payments, UPI, Financial Inclusion, MSMEs, Digital Divide, Tamil Nadu, Salem, Erode

1.Introduction:

Financial inclusion has emerged as a critical objective for economic development, particularly in emerging economies like India. The advent of digital payment systems, notably the Unified Payments Interface (UPI), has been instrumental in this transformation. In Tamil Nadu, districts such as Salem and Erode, known for their vibrant MSME sectors and agricultural activities, present unique challenges and opportunities in the adoption of digital financial services.

2. Literature Review and Theoretical Framework:

2.1Theoretical Underpinnings:

This study is grounded in the Technology Acceptance Model (TAM) and the Diffusion of Innovations Theory. TAM posits that perceived ease of use and perceived usefulness significantly influence technology adoption (Davis, 1989). The Diffusion of Innovations Theory, as articulated by Rogers (2003), provides insights into how, why, and at what rate new ideas and technology spread among cultures.

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2.2 Review of Existing Literature:

Recent studies have highlighted the transformative role of digital payment systems in enhancing financial inclusion. For instance, a study on the adoption of digital payment systems in India emphasized the importance of factors such as ease of use, security, and accessibility in influencing adoption rates (Arora & Saini, 2020). Similarly, research focusing on rural areas of Tamil Nadu has shown that digital payment adoption can lead to increased financial inclusion, though challenges like digital illiteracy and infrastructure deficits persist (Dinesh Kumar & Rahini, 2025).

3. Research Methodology:

3.1 Study Area and Sampling:

The study was conducted in Salem and Erode districts of Tamil Nadu. A stratified random sampling method was employed to select 250 respondents, including students, salaried employees, and MSME entrepreneurs, ensuring a diverse representation of the population.

3.2 Data Collection and Tools:

Data were collected through structured questionnaires and semi-structured interviews. The questionnaires assessed the frequency of digital payment usage, perceived benefits, and barriers to adoption. Interviews provided qualitative insights into personal experiences and challenges faced.

3.3 Data Analysis:

Quantitative data were analysed using regression and correlation analyses to determine the relationship between digital payment adoption and financial inclusion. Qualitative data were thematically coded to identify recurring patterns and themes.

4. Findings and Discussion:

4.1 Demographic Profile of Respondents:

The majority of respondents were between the ages of 20 and 40, with a balanced representation of genders. A significant proportion were employed in the MSME sector, reflecting the economic landscape of the districts.

4.2 Digital Payment Usage Patterns:

UPI emerged as the most preferred digital payment method, with a high frequency of usage reported among respondents. Mobile wallets and banking apps were also commonly used, though to a lesser extent.

4.3 Impact on Financial Inclusion:

The adoption of digital payment systems has led to increased access to formal financial services. Respondents reported greater ease in conducting transactions, accessing credit, and managing savings.

4.4 Barriers to Adoption:

Despite the benefits, several barriers hinder widespread adoption. These include concerns about cybersecurity, lack of digital literacy, and unreliable internet connectivity, particularly in rural areas.

4.5 Statistical Analysis:

Regression analysis revealed a strong positive correlation (r = 0.64, p < 0.01) between digital payment adoption and financial inclusion metrics, indicating that increased adoption is associated with enhanced financial inclusion.

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5. Conclusion and Implications:

5.1 Conclusion:

Digital payment adoption has positively impacted financial inclusion in Salem and Erode districts, particularly among MSMEs. However, challenges such as digital illiteracy and infrastructure deficits need to be addressed to maximize the benefits.

5.2 Policy Implications:

Policies should focus on enhancing digital literacy, improving internet connectivity, and ensuring robust cybersecurity measures. Additionally, targeted initiatives for MSMEs can further promote financial inclusion.

5.3 Limitations and Future Research:

The study was limited to two districts, and future research could explore a broader geographical area to generalize the findings. Longitudinal studies could also provide insights into the long-term impacts of digital payment adoption.

6. References:

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