

# A Study on How Mobile Payments Impact Poverty Reduction in India

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## Abstract:

India's financial ecosystem has undergone a rapid digital transformation over the past decade, driven primarily by the widespread adoption of mobile payment platforms such as Unified Payments Interface (UPI), Paytm, PhonePe, and Google Pay. Government initiatives including Digital India, Pradhan Mantri Jan Dhan Yojana (PMJDY), and Aadhaar have significantly strengthened the foundation for digital financial inclusion. In 2024, UPI transactions exceeded 14 billion per month, accounting for more than three-fourths of India's retail digital payments. Despite this progress, 22.5 percent of the population continues to experience multidimensional poverty.

This study examines the relationship between mobile payment adoption and poverty reduction in India, with a particular focus on whether increased digital financial inclusion translates into improved household welfare and reduced socio-economic inequality. The research is based on secondary data obtained from sources such as the Reserve Bank of India, National Payments Corporation of India, World Bank, and NITI Aayog. The analysis evaluates the role of mobile payments in enhancing financial inclusion, income security, and access to welfare benefits, while also assessing the influence of education, gender, digital literacy, and infrastructure on adoption outcomes.

The findings indicate that while mobile payment systems have expanded access to formal financial services and improved the efficiency of welfare delivery, their impact on poverty reduction remains uneven. Digital illiteracy, limited internet connectivity, and regional disparities continue to restrict equitable benefits. The study highlights the need for supportive policy interventions that integrate digital finance with education, infrastructure development, and awareness programs to ensure inclusive and sustainable poverty alleviation.

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## INTRODUCTION

The Indian financial landscape has been fundamentally transformed by the rapid expansion of digital and mobile payment technologies. Platforms such as UPI, Paytm, PhonePe, and Google Pay have become integral to everyday transactions, offering faster, safer, and more convenient alternatives to cash. Government-led initiatives, notably Digital India, Aadhaar, and the Jan Dhan Yojana, have played a crucial role in creating an enabling environment for inclusive financial development.

The introduction of UPI in 2016 marked a significant milestone in India's transition towards a cashless economy. By enabling instant, low-cost transactions through a unified mobile interface, UPI has facilitated participation by small traders, rural consumers, and self-employed individuals. According to the National Payments Corporation of India (2024), monthly UPI transactions crossed 14

billion in 2024, positioning India as a global leader in real-time digital payments.

While the efficiency and accessibility of digital finance are well documented, its direct impact on poverty reduction remains a subject of debate. Financial inclusion contributes to poverty alleviation by enabling savings, access to credit, risk management, and participation in economic activities. Mobile payment systems have the potential to support low-income households by reducing transaction costs, improving access to formal banking, and facilitating direct benefit transfers. However, the relationship between mobile payments and poverty reduction is complex and influenced by factors such as income levels, digital literacy, education, and regional infrastructure.

This study seeks to evaluate whether increased mobile payment adoption is associated with measurable reductions in poverty in India. By examining digital financial access alongside socio-economic indicators, the research aims to assess the

broader welfare implications of mobile payments. Although mobile payment systems represent a major technological advancement, sustainable poverty reduction requires their integration with inclusive policies, infrastructure development, and capacity-building initiatives.

## REVIEW OF LITERATURE

Existing literature on mobile payments and poverty alleviation presents both optimistic and cautious perspectives. Demirgüç-Kunt et al. (2022) emphasize that digital financial services enhance inclusion by enabling access to savings, credit, and remittance facilities for unbanked populations. Evidence from Kenya's M-Pesa system demonstrates significant reductions in poverty and improvements in household resilience through digital remittances (Jack & Suri, 2016).

In the Indian context, Chauhan (2022) observes that UPI and related platforms have improved access to banking services, particularly in semi-urban and rural areas. Reports by the Reserve Bank of India (2023) indicate that digital payments have increased the efficiency of welfare transfers and reduced leakage in government programs. However, NITI Aayog (2023) notes that despite advancements in digital inclusion, a substantial proportion of the population remains in poverty, suggesting that access alone may not be sufficient to improve living standards.

Studies by the World Bank (2022) and Singh and Raj (2023) identify disparities in internet access, smartphone ownership, and digital literacy as key constraints affecting mobile payment adoption. Trust in technology, awareness of digital tools, and social influences further shape user engagement with digital finance. While prior research establishes the role of mobile payments in promoting financial inclusion, limited empirical evidence directly links mobile payment adoption to poverty reduction across Indian states. This study seeks to address this gap by examining the broader socio-economic implications of mobile payment systems.

## OBJECTIVES

1. To examine the impact of mobile payment systems on poverty reduction in India.
2. To analyse the relationship between mobile payment usage and financial inclusion.

3. To identify socio-economic factors influencing mobile payment adoption among low-income groups.
4. To assess the role of digital finance in reducing income and regional disparities.

## STATEMENT OF THE PROBLEM

Mobile payment solutions have become an integral component of India's financial system, fostering greater efficiency and inclusion. Despite this progress, 22.5 percent of the population continues to experience multidimensional poverty. It remains unclear whether increased adoption of mobile payments has translated into improved household welfare and equitable economic development. This study addresses the problem of whether regions with higher mobile payment penetration exhibit better poverty outcomes and financial well-being.

## SCOPE OF THE STUDY

The present study examines the relationship between mobile payment systems and poverty reduction in India, with particular emphasis on digital financial inclusion in both urban and rural contexts. The analysis is based on secondary data obtained from reliable sources such as the National Payments Corporation of India (NPCI), Reserve Bank of India (RBI), World Bank, and NITI Aayog. The study analyses key socio-economic determinants of mobile payment adoption, including income level, education, digital literacy, and gender. It also evaluates the role of mobile financial services in facilitating government initiatives such as Direct Benefit Transfers (DBT) and supporting small-scale economic activities. Although the research relies primarily on macro-level data, it provides meaningful insights into the contribution of technology-driven finance to inclusive economic growth.

In addition, the study explores regional variations in mobile payment usage and their implications for equitable economic development. It assesses how infrastructure availability, policy implementation, and awareness initiatives influence the effectiveness of digital inclusion efforts. By identifying strengths and limitations within India's digital payment ecosystem, the study aims to offer policy-relevant insights to enhance financial access, reduce inequality, and ensure that mobile payment adoption contributes to sustainable poverty reduction.

### Data on Mobile Payments and Poverty Reduction in India

Indicator	Secondary Data	Source	Relevance to Study
UPI transaction volume (2024)	Over 14 billion transactions per month	NPCI (2024)	Indicates widespread adoption of mobile payments
Share of UPI in retail digital payments	More than 75%	RBI (2023)	Shows dominance of mobile payments in daily transactions
Jan Dhan bank accounts	520+ million accounts	Government of India	Enhances financial inclusion via mobile-linked banking
Account ownership in India	Increased from 53% (2014) to 78% (2021)	World Bank (2022)	Reflects improved access to formal finance
Population in multidimensional poverty	22.5% of population	NITI Aayog (2023)	Highlights need for poverty reduction measures
DBT savings due to digital payments	₹2.7 lakh crore saved	RBI / Govt. Reports	Shows efficiency of mobile payments in welfare delivery
Annual DBT transfers	Over ₹9 lakh crore	Government of India	Direct income support to low-income households
Digital payment usage among small merchants	Around 60% adoption	RBI (2023)	Supports income stability and business growth
Rural internet penetration	Around 55–60%	World Bank (2022)	Explains digital divide affecting poverty reduction
Women's participation in digital payments	35–40% of users	World Bank / RBI	Indicates empowerment but also gender gap

### FINDINGS

- Mobile payment systems in India have expanded rapidly, with UPI emerging as a global leader in real-time transactions.
- Adoption of mobile payments has reduced transaction costs and improved convenience for small businesses and low-income users.
- Digital finance has enhanced financial inclusion by enabling access to formal banking and secure transfer mechanisms.
- Poverty reduction outcomes remain uneven due to digital illiteracy, connectivity gaps, and income disparities.
- Mobile payments have strengthened the efficiency and transparency of Direct Benefit Transfers.
- Concerns related to cybersecurity, trust, and limited digital awareness constrain sustained usage among vulnerable groups.

### CONCLUSION

This study demonstrates that the expansion of mobile payment systems in India has significantly transformed the financial ecosystem by enhancing

efficiency, transparency, and access to formal financial services. Platforms such as UPI, Paytm, and PhonePe have brought digital financial services closer to underserved populations, thereby strengthening financial inclusion. However, the findings also indicate that technological advancement alone is insufficient to achieve meaningful poverty reduction.

Mobile payment systems contribute to poverty alleviation by reducing transaction costs, improving access to government welfare schemes, and supporting income-generating activities, particularly among women and small business owners. Despite these benefits, disparities in digital literacy, smartphone ownership, internet connectivity, and regional infrastructure limit the equitable distribution of outcomes. Addressing these structural barriers is essential to ensure that digital financial inclusion translates into improved household welfare.

The study underscores the importance of integrating mobile payment adoption with complementary socio-economic measures, including investments in digital infrastructure, financial literacy initiatives, and inclusive policy frameworks. Strengthened institutional support

and collaboration among government agencies, financial institutions, and technology providers can enhance trust, security, and sustained usage of digital payment platforms.

In conclusion, while mobile payments represent a critical component of India's economic modernization, their effectiveness in reducing poverty depends on their inclusive and balanced implementation. When combined with education, infrastructure development, and targeted policy interventions, mobile payment systems can serve as a powerful instrument for sustainable poverty reduction and inclusive economic growth in India.

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