# Adoption of Digital Payments Among Small and Medium Enterprises (SMEs): Drivers, Barriers, and Policy Implications

#### Anshika Mishra, Anshuman Shukla

manshika030@gmail.com, shuklaanshuman52@gmail.com

MBA in Financial Management, Galgotias University, Greater Noida, India

#### **Abstract:**

The rise of Financial Technology (FinTech) has revolutionized financial services, especially in developing countries like India. Digital payments, a key FinTech innovation, are critical in enhancing business efficiency, financial inclusion, and economic digitization. This research investigates the adoption of digital payment solutions among Small and Medium Enterprises (SMEs) in India, using a mixed-methods approach. Findings reveal that convenience, customer demand, and government policies are the primary adoption drivers, while digital illiteracy and trust issues remain barriers. The study provides actionable recommendations for FinTech firms, SMEs, and policymakers to strengthen digital infrastructure and boost user confidence.

Keywords: FinTech, SMEs, digital payments, financial inclusion, user adoption, India

# 1.Introduction:

FinTech has emerged as a transformative force in the global financial landscape, integrating digital innovation into banking, lending, investing, and payments. In India, the rise of digital payment systems—UPI, mobile wallets, and internet banking—has accelerated post-demonetization and during the COVID-19 pandemic. SMEs, which form the backbone of the Indian economy, are increasingly leveraging these platforms to reduce costs, improve efficiency, and reach digital consumers. However, barriers such as security concerns, digital illiteracy, and lack of trust slow mass adoption.

This paper explores the behavioral, technological, and policy factors shaping SME adoption of digital payments. It uses a combination of quantitative surveys and qualitative interviews to assess perceptions and usage patterns among urban and semi-urban SMEs.

# 2. Literature Review:

# 2.1 Technology Adoption Frameworks

- Technology Acceptance Model (TAM) by Davis (1989) emphasizes perceived ease of use and usefulness as core to tech adoption.
- Diffusion of Innovation Theory (Rogers, 2003) shows adoption starts with urban early adopters before trickling down to rural users.
- Unified Theory of Acceptance and Use of Technology (UTAUT) (Venkatesh et al., 2003) highlights performance expectancy, effort expectancy, and facilitating conditions as key predictors.

# 2.2 FinTech-Specific Factors:

- Blockchain adds transparency and fraud prevention to digital payments (Chuen & Teo, 2015).
- Government policy, especially post-2016 demonetization, played a key role in digital wallet adoption (Kumar et al., 2020).
- Trust and security concerns are significant barriers (Alalwan et al., 2017).



Volume: 09 Issue: 07 | July - 2025 SJIF Rating: 8.586 **ISSN: 2582-3930** 

• Pandemic impact boosted contactless payment adoption (Chopra et al., 2021).

# 2.3 Gaps in Literature:

While past studies highlight consumer behavior, research specific to SME digital payment adoption in semi-urban India remains limited.

# 3. Research Objectives and Methodology:

# 3.1 Objectives

- To assess drivers of digital payment adoption
- To evaluate user perceptions of security, trust, and convenience
- To examine the role of government policies
- To identify barriers and propose solutions for wider adoption

# 3.2 Hypotheses:

- H1: Ease of use and perceived usefulness significantly influence digital payment adoption
- H2: Security and trust issues negatively impact adoption
- H3: Government policies positively influence digital payment adoption

# 3.3 Methodology:

- Approach: Mixed methods (quantitative + qualitative)
- Sample Size: 111 survey respondents + 20 interviews
- Sampling: Stratified random sampling covering urban and semi-urban SMEs
- Tools: Statistical analysis via regression; visualizations via Power BI

# 4. Data Analysis and Findings:

# 4.1 Demographics and Usage Patterns

- 49.5% of respondents were graduates; 24.3% postgraduates
- Weekly and daily digital payments were most common (approx. 70%)
- 86.49% of users would recommend digital payments to others

# **4.2 Drivers of Adoption:**

- Convenience (33%), Customer Demand (24%), and Government Policy (20%) were leading motivators
- UPI emerged as the most used payment mode (75 respondents), surpassing net banking and mobile wallets

# 4.3 Barriers Identified:

- Issues were "Rarely" or "Never" experienced by most users, showing improved reliability
- Barriers cited included security concerns, lack of trust, poor internet connectivity, and digital illiteracy



# 4.4 Perceived Impact:

- 44% rated the impact on business as "Positive"; 30% as "Very Positive"
- No respondent reported a "Very Negative" impact

#### 4.5 Role of Government:

Over 70% rated government regulations as "Important" or "Very Important" in shaping adoption

#### 5. Discussion:

The study reaffirms established models like TAM and UTAUT, showing that perceived ease of use, usefulness, and social influence drive digital payment adoption. UPI's dominance indicates the success of India's digital public infrastructure. However, mobile wallet usage remains low, possibly due to UPI's convenience and integration.

The post-pandemic surge in digital payments reflects behavioral shifts. However, to ensure continued growth, stakeholders must address concerns around cybersecurity, usability, and rural access.

#### 6. Recommendations:

#### For FinTech Firms:

- Invest in Security: Implement encryption and fraud detection tools
- Simplify UX: Make interfaces intuitive for non-tech users
- Promote Literacy: Offer tutorials and multilingual support
- Encourage Mobile Wallets: Bundle features to compete with UPI

# For Policymakers:

- Strengthen Regulatory Frameworks: Enforce data protection and cybersecurity standards
- Enhance Inclusion: Subsidize digital access for rural SMEs
- Standardize Infrastructure: Promote interoperability across platforms

# For SMEs:

- Diversify Payment Modes: Offer UPI, net banking, and wallet options
- Train Staff: Ensure employees are digitally literate
- Build Trust: Communicate safety protocols to customers

# 7. Conclusion:

Digital payment adoption among SMEs in India is accelerating due to convenience, customer expectations, and policy support. With minimal reported technical issues and strong user satisfaction, the ecosystem is maturing. However, security concerns and digital literacy gaps must be addressed to ensure equitable adoption.

The findings contribute to policy and industry discussions on making India's FinTech landscape more inclusive and resilient.



# International Journal of Scientific Research in Engineering and Management (IJSREM)

Volume: 09 Issue: 07 | July - 2025 SJIF Rating: 8.586 **ISSN: 2582-3930** 

# **References:**

Davis, F. D. (1989). Perceived usefulness, perceived ease of use, and user acceptance of information technology. MIS Quarterly.

Rogers, E. M. (2003). Diffusion of Innovations. Free Press.

Venkatesh, V. et al. (2003). User acceptance of information technology: A unified view. MIS Quarterly.

Chuen, D. L. K., & Teo, E. G. S. (2015). LASIC Principles in FinTech. Journal of Financial Perspectives.

Kumar, P. et al. (2020). User adoption of digital wallets post-demonetization. Economic Research.

Alalwan, A. A. et al. (2017). Mobile banking uptake in Jordan. Journal of Retailing and Consumer Services.

Chopra, S. et al. (2021). Post-pandemic digital payment trends. Journal of Consumer Behavior.

World Bank (2023). Digital Financial Inclusion: Trends and Challenges. https://www.worldbank.org