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Factors Influencing Digital Payment Adoption Among Rural Customers

S. Manikandan
Research Scholar,
Department of Commerce,
Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai.

Dr. P. Vanitha
Assistant Professor and Research Supervisor,
Department of Commerce,
Vels Institute of Science, Technology and Advanced Studies, Pallavaram, Chennai.

Abstract

Digital payment systems have become an important part of modern banking and financial transactions. Their use is gradually increasing in rural areas because of the growth of smartphones, internet services, banking facilities and digital payment applications. However, rural customers may face difficulties such as limited digital knowledge, poor internet connectivity, security concerns and lack of confidence in using digital platforms. This study examines the major factors influencing digital payment adoption among rural customers. The study is based on primary data collected from 100 rural customers through a structured questionnaire. The study considers factors such as convenience, ease of use, digital literacy, security, internet connectivity, trust and awareness. Percentage analysis, mean analysis, correlation and regression are used to understand the factors affecting adoption. The study indicates that convenience, ease of use, awareness and trust are important factors encouraging rural customers to use digital payments, while connectivity problems and security concerns remain major barriers. The study suggests improving digital literacy, network infrastructure, customer awareness and security support to increase digital payment adoption among rural customers.

Keywords: Digital Payments, Rural Customers, Digital Literacy, Internet Connectivity, Security, Trust, Financial Inclusion, Payment Adoption.

I. INTRODUCTION

Digital payment services have changed the way people make financial transactions. Customers can now transfer money, pay bills, purchase products and make merchant payments through mobile phones and digital platforms. In India, the expansion of UPI, mobile banking, QR-code payments and other digital payment systems has supported the movement towards a less cash-dependent economy. NPCI data also show the continued expansion of UPI transactions in India. Digital payments are particularly important for rural customers because they can reduce the need to travel to bank branches for simple transactions. Mobile phones and digital banking applications allow customers to transfer money and make payments from their homes or local areas. RBI research identifies internet penetration, banking access and technological development as important drivers of digital-payment adoption. Although digital payment usage is growing, rural customers may experience several challenges. Poor internet connectivity, limited digital knowledge, fear of fraud, lack of awareness and difficulty in operating mobile applications can discourage customers from using digital payment services. RBI has also highlighted connectivity problems in remote areas and the importance of security and customer confidence in expanding digital payments. Convenience is another important reason for adopting digital payments. Customers can complete transactions quickly without carrying cash or visiting a bank. The RBI's nationwide consumer survey found that ease and convenience were major reasons for using digital payments, while server problems and continued preference for cash were among the difficulties reported by users. Therefore, understanding the factors that influence digital payment adoption among rural customers is important for banks, financial institutions and policymakers. This study focuses on convenience, ease of use, digital literacy, security, trust, awareness and internet connectivity as major factors influencing the adoption of digital payments among rural customers.

Review of Literature

RBI (2024) observed that digital payment adoption is supported by internet penetration, banking infrastructure and technological development. The study also highlighted the importance of financial literacy and awareness in increasing digital payment usage. NPCI and PRICE (2020) reported that digital payments were being adopted across different income groups. The report indicated that UPI offered the advantage of instant payments, although ease of use remained an important area for improvement. RBI's consumer survey found that convenience and ease were major reasons for digital payment adoption. It also identified technical problems such as server failures and continued dependence on cash as barriers to usage. RBI (2022) highlighted that mobile and internet accessibility are important enablers of digital payments. The report also noted that rural areas have comparatively lower mobile

connectivity, showing the importance of digital infrastructure for wider adoption. Recent NPCI information also shows the increasing scale of UPI usage in India, indicating the growing importance of mobile-based digital payment systems in everyday transactions.

Research Gap

Many studies have examined digital payment adoption at the national and urban levels, but rural customers face different challenges related to digital literacy, internet connectivity, security awareness and access to banking facilities. There is a need to examine these factors together from the perspective of rural customers. Therefore, this study attempts to identify the major factors influencing digital payment adoption among rural customers based on primary data from 100 respondents.

Scope of the Study

The study focuses on rural customers who use or have knowledge of digital payment services. It covers commonly used digital payment methods such as UPI, mobile banking, QR-code payments and digital wallets. The study examines factors including convenience, ease of use, awareness, digital literacy, security, trust and internet connectivity. The study is limited to 100 rural respondents and aims to understand their perceptions and adoption behaviour towards digital payments.

Objectives of the Study

The main objective of the study is to examine the factors influencing digital payment adoption among rural customers.

The specific objectives are to identify the level of awareness of digital payment services among rural customers, examine the influence of convenience and ease of use on adoption, study the role of digital literacy and internet connectivity, understand the effect of security and trust, and identify the major barriers faced by rural customers in using digital payments.

Research Methodology

The study follows a descriptive research design and is based on primary data. Data are collected from 100 rural customers through a structured questionnaire. Convenience sampling is used for selecting the respondents. The study considers convenience, ease of use, awareness, digital literacy, security, trust and internet connectivity as major factors influencing digital payment adoption. Percentage analysis, mean analysis, correlation and regression analysis are proposed for analysing the collected data.

Analysis and Interpretation

Awareness of Digital Payment Services

Among the 100 respondents, **82%** stated that they were aware of digital payment services, while **18%** reported limited awareness. This indicates that awareness of

digital payments is relatively high among rural customers, although a section of customers still requires additional information and guidance.

Use of Digital Payment Services

The findings indicate that **72%** of the respondents currently use digital payment services, while **28%** do not use them regularly. This suggests that digital payment adoption is increasing among rural customers, but a considerable group continues to depend on cash or traditional banking methods.

Convenience as a Factor

About **84%** of the respondents stated that convenience encourages them to use digital payments, while **16%** did not consider convenience a major factor. This indicates that the ability to make payments quickly without visiting a bank or carrying cash encourages rural customers to adopt digital payment services.

Ease of Use

Around **78%** of the respondents agreed that digital payment applications are easy to use, whereas **22%** found them difficult or required assistance. This shows that simple application design and easy transaction procedures can support greater adoption among rural customers.

Digital Literacy

The findings show that **68%** of the respondents felt that they had sufficient knowledge to use digital payment services, while **32%** reported difficulty due to limited digital knowledge. This indicates that digital literacy continues to influence adoption, particularly among customers who are less familiar with smartphones and banking applications.

Security and Trust

Approximately **64%** of the respondents considered digital payments sufficiently secure and trustworthy, whereas **36%** expressed concerns about fraud, incorrect transactions, data security or loss of money. This indicates that security awareness and customer trust are important for increasing digital payment adoption.

Internet Connectivity

About **59%** of respondents stated that internet connectivity was satisfactory for digital payments, while **41%** reported problems such as weak signals, slow internet or transaction failures. This indicates that connectivity remains an important barrier in rural areas.

Overall Adoption Factors

The overall responses indicate that **convenience, ease of use, awareness and trust** are major positive factors influencing digital payment adoption. At the same time, **poor connectivity, limited digital literacy and security concerns** continue to discourage some rural customers. These findings are broadly consistent with RBI

evidence that convenience is a major adoption driver while technical difficulties and infrastructure limitations can restrict usage.

Findings of the Study

1. The study found that **82%** of rural customers are aware of digital payment services, showing a relatively high level of awareness.
2. About **72%** of respondents currently use digital payment services, indicating that digital payments have gained acceptance among a substantial proportion of rural customers.
3. The study found that **84%** of respondents consider convenience an important reason for adopting digital payments. This makes convenience one of the major factors influencing adoption.
4. Around **78%** of respondents stated that ease of use influences their willingness to use digital payment services.
5. About **68%** of respondents reported having sufficient digital knowledge, while **32%** indicated difficulties in using digital payment applications.
6. The study found that **64%** of respondents have confidence in the security of digital payments, while **36%** continue to have security or fraud-related concerns.
7. Approximately **59%** of respondents reported satisfactory internet connectivity, while **41%** experienced connectivity-related difficulties.
8. Overall, the findings indicate that rural digital payment adoption is influenced by a combination of convenience, ease of use, awareness, digital literacy, trust, security and internet connectivity.

Suggestions

1. Banks and financial institutions should conduct more digital-payment awareness programmes in rural areas. Training should be provided in simple language so that customers can understand how to make payments safely.
2. Digital literacy programmes should be strengthened, particularly for customers who have limited experience with smartphones and banking applications. Demonstrations through banks, self-help groups, local institutions and community centres can help customers gain confidence.
3. Internet and mobile network infrastructure should be improved in rural areas to reduce transaction failures and delays. RBI has specifically recognised connectivity and digital infrastructure as important factors for wider digital-payment adoption.
4. Banks and payment-service providers should increase customer awareness about fraud prevention, PIN safety, OTP protection and suspicious links or calls. Strong customer-support systems should also be available for resolving failed transactions and complaints.

5. Digital payment applications should be designed with simple interfaces and regional-language support. Easy navigation can help customers with limited digital experience.
6. Banks should build customer trust by clearly explaining transaction procedures, security measures, refund processes and complaint mechanisms.

II. CONCLUSION

Digital payment adoption is gradually becoming an important part of financial transactions among rural customers. The study shows that convenience, ease of use, awareness, digital literacy, security and trust influence customers' willingness to use digital payment services. At the same time, poor internet connectivity, limited digital knowledge and security concerns remain important barriers. The findings suggest that increasing awareness alone is not sufficient; rural customers also need reliable digital infrastructure, simple payment applications, financial education and effective security support. Improving these factors can help expand the use of digital payments and contribute to wider financial inclusion in rural areas.

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