

Volume 13, Issue 12, December 2024



Impact Factor: 8.524





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|www.ijirset.com | A Monthly, Peer Reviewed & Referred Journal | e-ISSN: 2319-8753 | p-ISSN: 2347-6710 |

Volume 13, Issue 12, December 2024

|DOI: 10.15680/IJIRSET.2024.1312100|

A Study on the Impact of UPI on Digital Payment Behavior and Its Role in Financial Literacy: Using AI Services

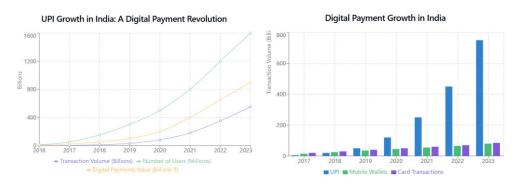
Md Ajimullah¹, Aditya Tiwari², Srikant Kumar³, Prof. Rakesh Jaiswal⁴

Student, Department of Computer Science and Business System, Oriental Institute of Science and Technology,

Bhopal, India^{1,2,3}

Assistant Professor, Department of Computer Science and Business System, Oriental Institute of Science and Technology, Bhopal, India⁴

ABSTRACT: The introduction and adoption of Unified Payments Interface (UPI) in India has drastically transformed the landscape of digital payments. By streamlining transactions, UPI has fostered a culture of cashless payments, significantly altering consumer spending behavior and financial habits. This paper delves into how UPI impacts consumer spending, saving behaviors, and financial literacy, particularly in the context of modern financial tools like spare change saver apps, such as 'Credhandle'. The research aims to explore UPI's role in encouraging micro-savings and the need for improving financial literacy to ensure responsible use of digital payments.



I. INTRODUCTION

In the past few years, UPI has revolutionized digital transactions in India, enabling easy, quick, and efficient transfers. Initially, UPI was introduced to facilitate simple peer-to-peer payments, but its use has since expanded to include various services, such as bill payments, online shopping, and even government subsidies. With these advancements, UPI has significantly affected how individuals manage their finances, leading to changes in both spending and saving behaviors. This paper explores how UPI impacts these behaviors and highlights the importance of financial literacy in a world increasingly driven by digital payments. Specifically, this study examines innovative financial tools like 'Credhandle', an app that promotes saving by rounding off spare change from digital transactions, and its implications on micro-savings in the digital era.

II. LITERATURE REVIEW

1. Spending Behavior and UPI:

The use of UPI has made transactions faster and more convenient, contributing to higher levels of consumer spending. According to Kumar et al. (2022), the accessibility of digital payment systems like UPI, coupled with promotional offers like cashback and discounts, encourages more frequent and impulsive purchases. Consumers often overlook the true cost of their purchases, especially when these payments are made digitally and without the physical sensation of





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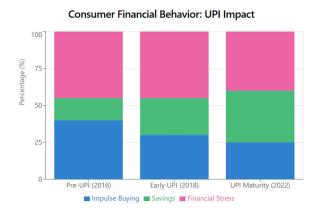
money being spent. This detachment from cash may reduce consumers' awareness of their spending, leading them to spend beyond their usual limits.

Metric	Pre-UPI Payments)	(Tradit	ional	Post-UPI (Digital Payments)
Spending Frequency	Lower transactions	frequency	of	Increased frequency
Impulse Buying	Rarely seen			Increased impulse buying
Average Transaction Value	Moderate			Higher due to offers/cashbacks
Savings Rate	Moderate			Decreased

Rafee et al. (2022) further explore the link between digital payments and spending behavior, suggesting that while digital platforms like UPI have increased purchasing convenience, they may also trigger higher spending due to the availability of instant loans (e.g., Paytm Pay Later, Amazon Pay Later). The risk here is that users may fail to assess the true impact of credit-based transactions, leading to overspending and an accumulation of debt. UPI's impact on spending behavior is therefore multifaceted, offering both convenience and posing the risk of financial mismanagement.

2. Impact on Savings and Debt:

Digital payment systems, particularly UPI, have altered the way people save. While UPI provides convenience, it may also contribute to the erosion of savings habits. Mallick et al. (2017) observe that factors such as income and family structure may not significantly affect overall saving rates in India. The rapid growth of digital payments, however, may contribute to an increase in consumer debt and discourage savings, as people often prioritize immediate consumption over future financial security.



Harshitha & Mahesh (2019) found that mobile payment systems impact the perceived value of money. When physical currency is not involved, consumers are less mindful of their spending and the true cost of their purchases. This can result in excessive spending and a failure to save. However, innovations like spare change saver apps, such as 'Credhandle', offer solutions to this issue by rounding off the spare change from UPI transactions and accumulating it in a savings account. Such apps provide users with an easy and automated way to save small amounts without disrupting their regular spending patterns.

3. The Role of Financial Literacy:

Financial literacy is crucial in helping consumers make informed decisions about their financial activities, especially when using digital payment systems. Senaya (2020) emphasizes the importance of financial literacy in guiding individuals to use digital platforms responsibly, ensuring that they are not trapped in debt or making poor financial decisions. Increased financial literacy also helps individuals understand the impact of their spending and saving habits on their long-term financial goals.





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Batra & Kalra (2016) argue that financial education is necessary to navigate the digital financial landscape. While digital payment systems like UPI offer numerous benefits, they also expose users to risks such as overspending and reliance on credit. Financial literacy can help users understand how to avoid these risks by teaching them about budgeting, saving, and managing credit effectively. Without sufficient financial education, there is a risk that digital platforms may encourage reckless spending, undermining users' financial well-being.

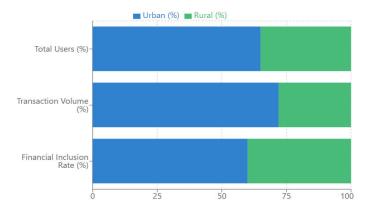
4. Digital Payment Trends and Their Socio-Economic Impact:

UPI has been a major contributor to the shift towards a cashless economy in India. Singh & Rana (2017) noted that the use of mobile wallets and digital payment systems, including UPI, has become increasingly popular due to their convenience and accessibility. The widespread adoption of UPI has enabled more people, especially those from rural areas, to participate in the digital economy. This trend is further supported by the growth in mobile internet usage, which has expanded access to financial services.

Risk	Description	Mitigation through Financial Literacy
Overspending		Budgeting and awareness of spending limits
	due to digital convenience	
Fraud and Scams	Online fraud and phishing attacks	Understanding cybersecurity measures
Debt Accumulation	Excessive reliance on credit	Educating on credit management and
	facilities	repayment

Pandey & Rathore (2018) discuss how digital payments have contributed to greater financial inclusion in India. The ease of using UPI for financial transactions has allowed underserved communities to access services such as digital payments, government subsidies, and micro-loans, thus bridging the gap between urban and rural populations. While these advancements are promising, they also present challenges, particularly regarding cybersecurity and digital literacy. Dakmnagpur (2022) emphasizes the need for increased efforts to enhance digital literacy to ensure users can safely navigate digital payment platforms and avoid fraud.

Digital Payment Adoption: Urban vs Rural India



5. The Future of Digital Payments and Financial Inclusion:

The future of digital payments in India appears promising, with UPI continuing to drive financial inclusion. Dakmnagpur (2022) highlights that UPI has played a pivotal role in providing access to financial services for underserved populations, helping to bridge the urban-rural divide. However, the rapid adoption of digital payments brings new challenges, such as the need for better cybersecurity measures and the promotion of digital literacy. Shobha BG (2020) discusses the importance of ensuring that users are equipped with the knowledge to protect themselves from cyber threats while using digital platforms. Furthermore, continued efforts to educate users on managing their finances in a cashless environment are essential for ensuring that financial inclusion benefits all sectors of society.



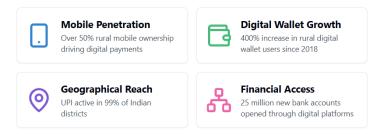


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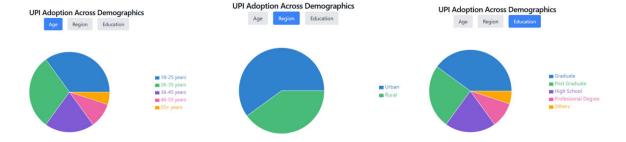
Financial Inclusion: Digital Payments Transforming Access



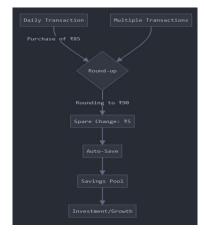
Source: Inspired by research from Dakmnagpur (2022) and Pandey & Rathore (2018)

III. DISCUSSION

The widespread adoption of UPI has transformed how individuals engage with their finances. On one hand, UPI has made transactions more efficient and accessible, facilitating greater financial inclusion. On the other hand, it has led to an increase in consumer spending and reduced savings, as the digital detachment from physical money makes it easier to spend impulsively. Innovative solutions like spare change saver apps (e.g., 'Credhandle') offer a promising way to promote savings in this new digital landscape. By rounding off spare change from UPI transactions, these apps make it easier for users to save without requiring significant changes to their spending habits.



Financial literacy plays a crucial role in ensuring that consumers can use digital payment systems effectively and responsibly. Educating individuals about budgeting, saving, and the responsible use of credit is essential to ensure that UPI's benefits are maximized and that consumers avoid the pitfalls of overspending and debt accumulation. As digital payment systems continue to grow, it is vital that efforts to promote financial literacy accompany these technological advancements.







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IV. CONCLUSION

UPI has transformed the digital payment landscape in India, making transactions faster and more accessible. However, this convenience has brought about challenges, particularly regarding consumer spending and saving behaviors. The introduction of innovative tools like 'Credhandle', which helps users save spare change, provides a solution to encourage savings in a cashless economy. Nevertheless, the importance of financial literacy cannot be overstated. As digital payments continue to shape the financial landscape, it is crucial that consumers are educated on how to use these tools responsibly and manage their finances effectively. Only then can digital payments fulfill their potential for greater financial inclusion and improved financial literacy.

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