

A PREDICTING ABOUT THE USER SPENDING PATTERNS OF DIGITAL TRANSACTION

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Abstract

This study examines the impact of digital payment adoption on consumer financial behaviours in Tamil Nadu, India. It explores how digital transactions influence savings and discretionary spending, driven by the "invisible money effect," which reduces psychological barriers to spending. The research highlights the role of social media integration in amplifying impulsive purchases through social influences and the fear of missing out (FOMO). Using a quantitative approach, data from 300 respondents reveal a significant negative correlation between digital transactions and savings habits, and a strong positive relationship between digital payment adoption and discretionary spending. These findings underscore the need for enhanced financial literacy, personalized financial planning tools, and balanced regulatory frameworks to support responsible financial management in the digital age.

Keywords

Digital Transactions, Consumer Spending. Savings Behaviour, Discretionary Spending , Financial Literacy

Introduction

In the current digital age, the landscape of consumer finance is swiftly evolving due to the widespread adoption of digital payment methods. These technologies, which include online transactions, mobile wallets, and contactless payments, have not only revolutionized transaction processes but also profoundly influenced individual spending behaviours and savings patterns. This study aims to deeply explore the intricate connection between the surge in digital transactions and its impact on consumer financial behaviours, specifically highlighting the potential outcomes of decreased savings and heightened discretionary spending.

The shift towards digital transactions introduces a paradigm where financial exchanges become increasingly abstract. Unlike physical currency, digital currencies lack the tangible nature that traditionally imposed a psychological barrier to spending. This phenomenon, often termed the "invisible money effect," can lead to easier and more frequent spending, as transactions feel less immediate and impactful on personal finances.

Furthermore, digital payment methods cater to the modern consumer's desire for instant gratification. With transactions completed in mere seconds, individuals can promptly satisfy their impulses and desires, often bypassing traditional considerations of necessity or value. This accessibility and immediacy not only facilitate impulsive purchases but also cultivate a culture of discretionary spending on non-essential goods and services.

Moreover, the integration of digital payments with social media platforms amplifies these spending impulses. Direct purchasing capabilities embedded within social media environments leverage social influences and the fear of missing out (FOMO), prompting consumers to make purchases based on emotional responses rather than rational financial assessments.

Through an exploration of these dynamics, this study seeks to uncover the underlying reasons behind the observed trends of reduced savings and increased extravagant spending associated with digital transactions. Understanding these influences is crucial for shaping informed financial practices and policies that promote stability and resilience in an increasingly digitized economy.

Review of literature

Recent literature has extensively examined the impact of digital payment systems and social media integration on consumer financial behaviours. Kumar and Sharma (2023) investigate the influence of digital payment systems, highlighting how the shift from physical currency to digital

transactions reduces psychological barriers to spending, resulting in increased discretionary spending and altered savings behaviours. Singh and Gupta (2024) explore the role of social media in amplifying digital payment trends, emphasizing how platforms leverage social influences and the fear of missing out (FOMO) to prompt impulsive purchases and reshape consumer spending habits. Lee and Choi (2024) analyze the broader implications of digital transactions on savings behaviour, noting a decline in traditional savings practices due to the convenience of digital payments and easy access to credit. Together, these reviews underscore the transformative effects of digitalization on consumer finance, necessitating further research to understand and mitigate its potential consequences for financial stability and savings habits.

Objectives of the Study

1. To investigate the relationship between increased digital transactions and changes in savings habits.
2. To assess the impact of digital transactions on lavish spending.
3. To identify the reasons behind reduced savings and increased lavish spending due to digital transactions.

Statement of the Problem

In the contemporary digital landscape, the adoption of digital payment methods such as online transactions, mobile wallets, and contactless payments has revolutionized consumer finance practices. This shift raises critical questions about its impact on consumer behavior, particularly concerning savings habits and discretionary spending. Understanding how these technologies influence financial decisions is crucial for developing strategies to promote responsible financial management in an increasingly cashless society.

Scope of the Study

This study aims to investigate the implications of increased digital transactions on consumer financial behaviours, focusing specifically on the following areas:

1. **Savings Behaviour:** Analysing how the adoption of digital payment methods affects individuals' savings patterns compared to traditional payment modes.
2. **Discretionary Spending:** Examining the extent to which digital transactions contribute to increased spending on non-essential goods and services, driven by factors like convenience and instant gratification.
3. **Demographic Variations:** Assessing whether different demographic groups exhibit varying responses to digital payment adoption in terms of savings and spending habits.

4. **Psychological and Social Influences:** Investigating the psychological mechanisms and social factors (e.g., social media integration, fear of missing out) that influence consumer financial decisions in the context of digital transactions.
5. **Policy Implications:** Providing insights into how policymakers and financial institutions can leverage these findings to develop policies and initiatives that promote financial stability and resilience in a digital economy.

Research Methodology

This study employs a quantitative research approach to investigate the impact of digital transactions on consumer financial behaviours in Tamil Nadu, India. The research design involves simple random sampling to select 300 respondents from various demographic backgrounds across the region.

Data Collection

Data Collection Tools: The primary method of data collection is through a structured questionnaire designed to gather insights into respondents' savings habits, discretionary spending patterns, and attitudes towards digital payment methods.

Primary Data: Primary data is collected directly from the respondents through the administered questionnaires. This data provides firsthand information about individuals' behaviours and perceptions related to digital transactions.

Secondary Data: In addition to primary data, secondary data sources such as academic journals, industry reports, and government publications are utilized to complement and contextualize the findings from the primary research.

Sampling Technique

Sampling Method: Simple random sampling is employed to ensure that each potential respondent in Tamil Nadu has an equal chance of being selected for the study. This method helps in obtaining a representative sample from the population of interest.

Ethical Considerations

Ethical guidelines and standards are strictly followed throughout the research process to ensure respondent confidentiality, voluntary participation, and unbiased data collection and analysis.

Limitations The study acknowledges potential limitations such as response bias, limited generalizability beyond the sampled population, and challenges in accurately capturing complex financial behaviours through self-reported data.

Hypothesis & Data Analysis

Hypothesis 1: Increased digital transactions are associated with changes in savings habits among Indian consumers.

Hypothesis 2: The adoption of digital payment methods leads to increased discretionary spending among different demographic groups in India.

Hypothesis 3: There is a significant relationship between digital transaction adoption and increased spending on non-essential goods and services in India.

Table 1 Increased digital transactions & savings habits among Indian consumers

Correlations			
		Digital Transactions	Savings Habits
Digital Transactions	Pearson Correlation	1	-.130*
	Sig. (2-tailed)		.024
	N	300	300
Savings Habits	Pearson Correlation	-.130*	1
	Sig. (2-tailed)	.024	
	N	300	300
*. Correlation is significant at the 0.05 level (2-tailed).			

Source: Primary Data

The correlation table examines the relationship between digital transactions and savings habits among Indian consumers. It reveals a statistically significant negative correlation ($r = -0.130$, $p = 0.024$), indicating that increased engagement in digital transactions is associated with a slight decrease in savings habits among the sample of 300 respondents. Conversely, higher savings habits correlate with slightly lower adoption of digital transactions. This suggests that there may be a trade-off or adjustment in financial behaviours as individuals adopt more digital payment methods in India.

The adoption of digital payment methods leads to increased discretionary spending among different demographic groups in India.

This table presents the results of a regression analysis examining the relationship between the adoption of digital payment methods and discretionary spending among different demographic groups in India.

Table 2 Adoption of Digital payment and spending Pattern

Variable	Coefficient	Standard Error	t-value	p-value
Constant	0.325	0.052	6.250	< 0.001
Adoption of Digital Payments	0.421	0.034	12.345	< 0.001
Age	-0.127	0.018	-7.012	< 0.001
Income	0.278	0.025	11.020	< 0.001
Educational Qualification	0.093	0.012	7.850	< 0.001

Source: Primary Data

The coefficient for "Adoption of Digital Payments" is 0.421, indicating that a one-unit increase in the adoption of digital payment methods is associated with a 0.421 unit increase in discretionary spending, holding all other variables constant. This coefficient is statistically significant (t-value = 12.345, $p < 0.001$), suggesting a strong positive relationship between digital payment adoption and discretionary spending.

Other demographic factors such as Age, Income, and Educational Qualification also show significant associations with discretionary spending. Specifically, higher Income (coefficient = 0.278, t-value = 11.020, $p < 0.001$) and higher Educational Qualification (coefficient = 0.093, t-value = 7.850, $p < 0.001$) are positively associated with discretionary spending, while Age (coefficient = -0.127, t-value = -7.012, $p < 0.001$) shows a negative association.

The constant term (0.325, t-value = 6.250, $p < 0.001$) represents the estimated discretionary spending when all predictor variables are zero.

These findings suggest that digital payment adoption significantly influences discretionary spending behaviour across different demographic groups in India, highlighting the impact of technological advancements on consumer financial behaviour.

Transaction Adoption and Increased Spending on Non-Essential Goods And Services In India.

This table provides a summary of key statistical results related to the relationship between transaction adoption and spending on non-essential goods and services in India. It includes ANOVA statistics that highlight the significance of the relationship between these variables.

Table 3 Transaction Adoption and Increased Spending on Non-Essential Goods And Services In India.

One Way Anova	Mean Square	F	Sig.
Between Groups	14.788	17.380	.000
Within Groups	.851		

Total	310		
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Source: Primary Data

The one-way ANOVA results indicate a significant difference in spending on non-essential goods and services based on levels of transaction adoption in India ($F(1, 310) = 17.380, p < .001$). This suggests that there is a relationship between transaction adoption and spending patterns, with higher adoption associated with increased spending on non-essential items.

Findings:

Findings from the study reveal compelling insights into the impact of digital transaction adoption on financial behaviours among Indian consumers. Firstly, the correlation analysis shows a significant negative relationship ($r = -0.130, p = 0.024$) between digital transactions and savings habits, indicating that as individuals increasingly engage in digital payments, their propensity for savings slightly decreases. Conversely, higher savings habits are associated with a marginal decrease in digital transaction adoption, suggesting a nuanced relationship influenced by financial behaviour adjustments.

Secondly, the regression analysis underscores a robust positive association between the adoption of digital payment methods and discretionary spending across diverse demographic groups in India. The coefficient for "Adoption of Digital Payments" ($\beta = 0.421, p < 0.001$) signifies that for every unit increase in digital payment adoption, discretionary spending rises by 0.421 units, holding other factors constant. Age demonstrates a negative association with discretionary spending ($\beta = -0.127, p < 0.001$), while higher income ($\beta = 0.278, p < 0.001$) and educational qualifications ($\beta = 0.093, p < 0.001$) positively influence spending behaviour.

Lastly, the ANOVA results highlight a significant relationship between transaction adoption and spending on non-essential goods and services ($F(1, 310) = 17.380, p < .001$). This suggests that as digital transaction adoption increases, there is a corresponding rise in expenditures on non-essential items among Indian consumers, reflecting evolving consumer preferences and economic behaviours shaped by technological advancements.

Overall, these findings underscore the transformative impact of digitalization on consumer financial habits in India, urging stakeholders to consider the implications for financial planning, consumer protection, and policy formulation in the digital age.

Suggestion

- ❑ **Enhanced Financial Literacy:** Develop comprehensive programs to educate consumers on maintaining savings habits alongside increased digital transaction adoption.
- ❑ **Personalized Financial Planning Tools:** Create tools and apps that help consumers track and manage discretionary spending, tailored to individual financial goals and habits.

- **Balanced Regulatory Frameworks:** Implement regulations that foster innovation in digital payments while ensuring robust consumer protections against overspending and unauthorized transactions.
- **Education and Awareness Campaigns:** Launch campaigns to increase awareness among consumers about the benefits and risks associated with digital transactions.
- **Continuous Research and Monitoring:** Conduct ongoing research to monitor consumer behaviours related to digital transactions and adapt strategies and policies accordingly to meet evolving needs.

Conclusion of the study

In conclusion, this study sheds light on the profound impact of digital transaction adoption on financial behaviours among Indian consumers. The findings reveal a complex interplay: while digital transactions correlate positively with discretionary spending, they also show a slight negative association with savings habits. This underscores the need for balanced financial literacy initiatives, personalized financial tools, and robust regulatory frameworks to harness the benefits of digitalization while safeguarding consumer financial health. Moving forward, continued research and adaptive policies will be crucial in navigating the evolving landscape of digital payments in India.

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