iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 13 **Issue:** XI **Month of publication:** November 2025

DOI: https://doi.org/10.22214/ijraset.2025.75885

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International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 13 Issue XI Nov 2025- Available at www.ijraset.com

Impact of UPI on Spending Patterns of Consumers

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I. INTRODUCTION

The rapid digital transformation in India has been significantly shaped by the introduction of the Unified Payments Interface (UPI), launched in April 2016 by the National Payments Corporation of India (NPCI). UPI revolutionized the payments landscape by enabling instant, secure, and seamless bank-to-bank transactions using a single mobile application. Its rise has been exceptional, surpassing traditional payment modes and forming the backbone of India's digital economy.

The accessibility of smartphones, reduced internet costs, financial inclusion initiatives, and changing consumer behavior have all contributed to UPI becoming the most preferred mode of payment. From small vendors to large retailers, UPI has penetrated every sector of the Indian economy. As a result, consumer spending patterns have undergone noticeable changes—people are transacting more frequently, engaging in small-ticket purchases, and increasingly shifting away from cash-based transactions.

This research paper studies the impact of UPI on consumer spending patterns, exploring how its adoption has influenced behavior across different demographics. The study uses quantitative primary data collected from 100 respondents to understand frequency of usage, spending behavior, budgeting issues, and trust in UPI systems.

A. History and Evolution of UPI

The foundation for UPI was laid in 2009 with the establishment of NPCI, aimed at integrating multiple payment platforms under a unified system. By 2012, the Reserve Bank of India released a vision document emphasizing the need for a safe, efficient, and inclusive payment ecosystem. UPI officially launched in 2016, enabling users to transact without sharing sensitive banking details.

Key milestones in UPI's evolution include:

1) 2016: Public launch with a few partnering banks.
2) 2017–2018: Massive adoption following demonetization.
3) 2019: India becomes one of the world's largest real-time payment markets.
4) 2021: UPI crosses $100 billion in monthly transaction value.
5) 2022–2023: Introduction of UPI Lite, e-RUPI, and global expansion efforts.

Today, UPI is one of the most successful fintech innovations globally, adopted across diverse sectors including retail, e-commerce, transportation, utilities, and peer-to-peer transfers.

B. Objectives of the Study

The central objective of this study is to examine:

C. Primary Objective

To analyze the impact of UPI on the spending patterns of consumers.

D. Sub-Objectives

1) To analyze the frequency of UPI usage among different age groups.
2) To determine whether UPI influences increased consumer spending.
3) To study issues faced by users while using UPI.
4) To evaluate behavioral changes such as impulse buying and budgeting challenges.
5) To examine whether users consider switching payment modes after overspending via UPI.

E. Scope of the Study

The scope of the study includes:

1) UPI Adoption Trends: Understanding how widely UPI has been adopted by individuals.
2) Behavioral Shifts: Studying changes in impulse buying, frequency of transactions, and transaction size.

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3) Category-Wise Spending: Examining increased spending on food, travel, entertainment, online shopping, etc.
4) Demographic Influence: Exploring the relationship between age, financial literacy, and UPI usage patterns.
5) Transactional Behavior: Investigating shift from cash to digital payments and ease of bill payments and peer transfers.

II. RESEARCH METHODOLOGY

A. Research Design

A quantitative research design was used, collecting measurable responses through a structured questionnaire.

B. Sampling Technique

Convenience sampling was used to collect data from 100 respondents who were internet users familiar with UPI.

C. Data Collection Method

Primary data was collected through Google Forms comprising 14 multiple-choice questions related to UPI usage and spending behavior.

D. Data Analysis Tools

Data was analyzed using descriptive statistics and interpreted through charts, frequencies, and comparative observations.

III. LITERATURE REVIEW

A summarized and expanded review of major studies as found in the file:

Digital payment adoption in India has been widely studied by various researchers. Many have highlighted that technological advancements, demographic factors, education, and smartphone penetration have influenced digital payment behaviour.

Studies such as Rasna TPP & Susila (2021) explored gender-based UPI usage preferences, showing significant differences in rural and urban areas. Researchers like Saha & Dutta (2021) found that consumers increased spending on food, entertainment, and travel due to ease of UPI payments.

During COVID-19, Gupta & Goyal (2020) identified increased UPI usage for essentials such as groceries and healthcare. Studies consistently conclude that UPI has increased spending frequency, improved convenience, and reduced reliance on cash.

However, researchers such as Dorothy (2019) and Dhanya (2019) emphasized existing challenges like security concerns, lack of trust, and technological illiteracy among older populations.

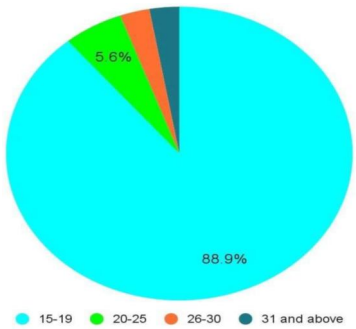
Overall, literature indicates that UPI has brought significant behavioral changes, aligning with global digitization trends.

IV. DATA COLLECTION AND INTERPRETATION (PRIMARY DATA)

1) Q1: What is your age?

- 15–19 years: 88.9%
- 20–25 years: 5.6%
- 26–30 years: 2.8%
- 31+ years: 2.8%

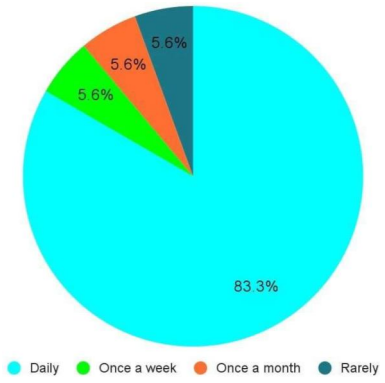
Interpretation: The majority of UPI users in this sample are teenagers and young adults, indicating that younger demographics are more digitally active and comfortable with mobile payments.



2) *Q2: How often do you use UPI for making payments?*

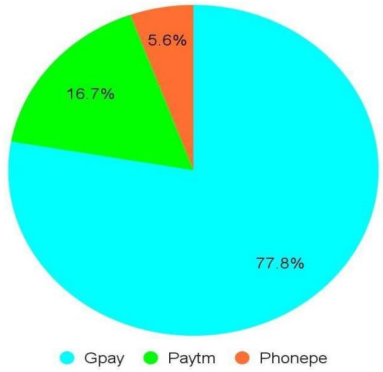
- Daily: 83.3%
- Once a week: 5.6%
- Once a month: 5.6%
- Rarely: 5.6%

Interpretation: Most respondents use UPI daily, suggesting high dependency and routine usage for everyday expenses.



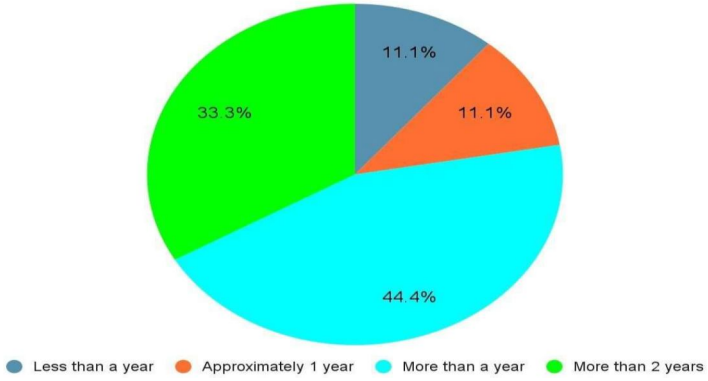
3) *Q3: According to you, which app is best for digital payment?*

- Gpay
- Paytm
- PhonePe



4) *Q4: How many years have you been using UPI?*

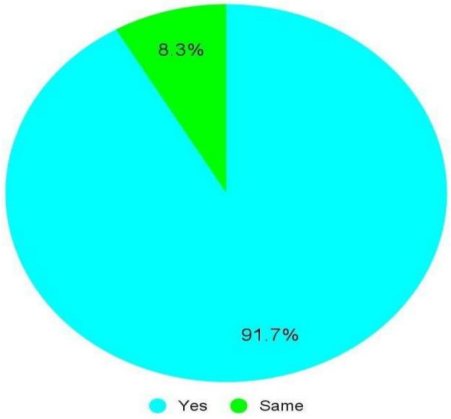
- Less than a year
- Approximately 1 year
- More than a year
- More than 2 years



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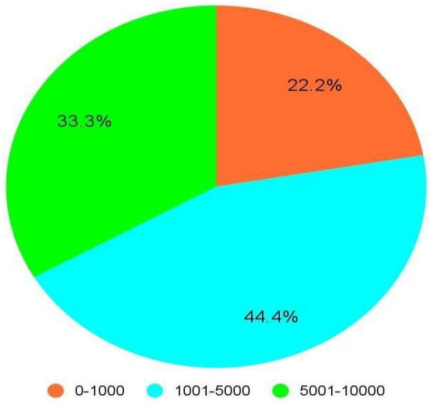
5) *Q5: Do you find UPI more convenient than other payment methods, such as cash or credit/debit cards?*

- Yes
- Same



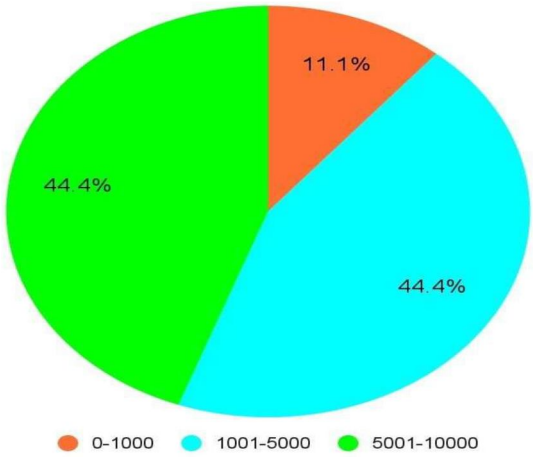
6) *Q6: How much do you spend through UPI in a month?*

- 0 – 1000
- 1001 – 5000
- 5001 – 10000



7) *Q7: How much did you spend in a month before UPI?*

- 0 – 1000
- 1001 – 5000
- 5001 – 10000

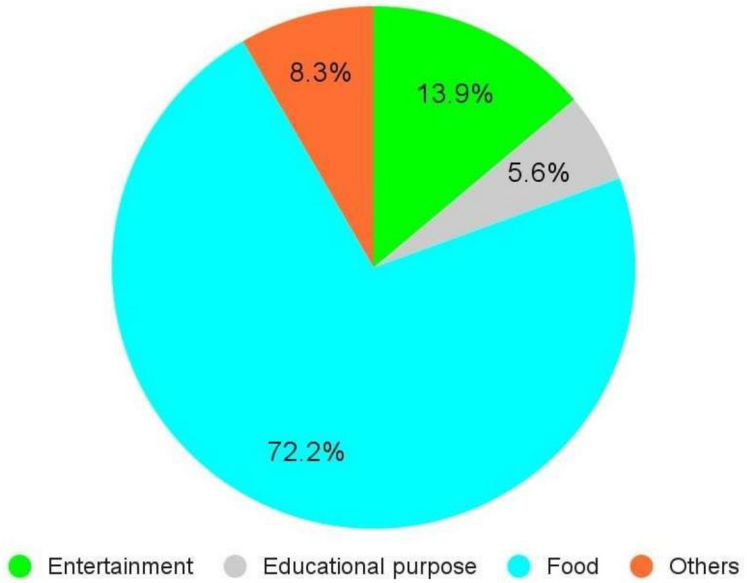


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ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
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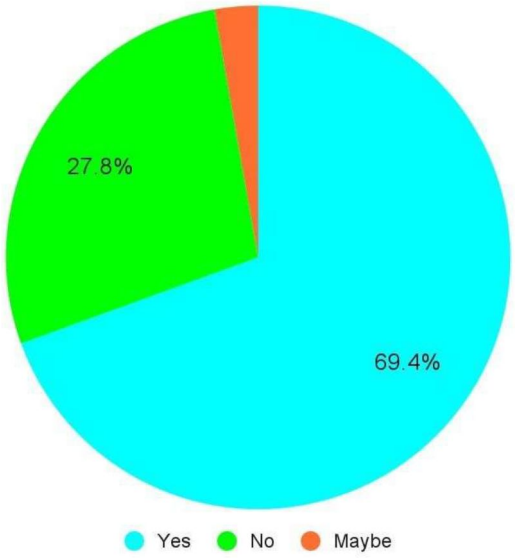
8) *Q8: Where do you spend the most money through UPI?*

- Entertainment
- Educational Purpose
- Food
- Others



9) *Q9: Do you think UPI has made it easier for you to track your expenses?*

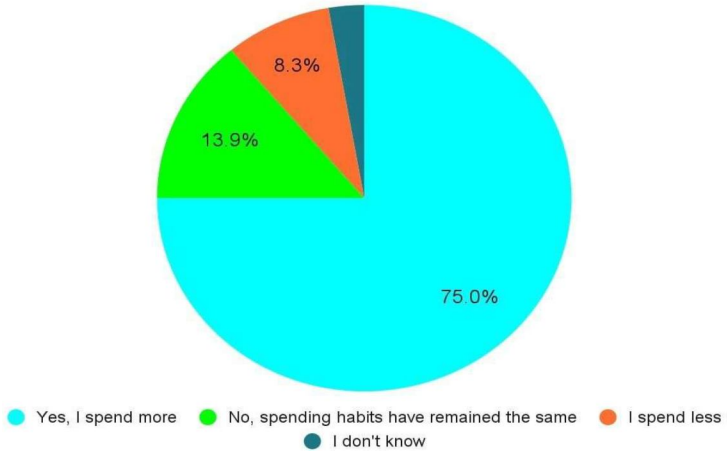
- Yes
- No
- Maybe



10) *Q10: Have you noticed any changes in your spending habits after starting to use UPI?*

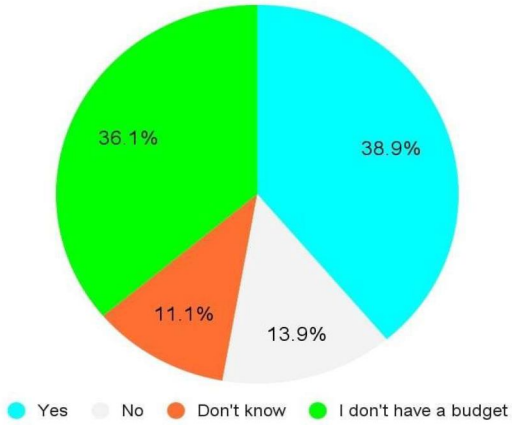
- Yes, I spend more
- No, spending habits have remained the same
- I spend less
- I don't know

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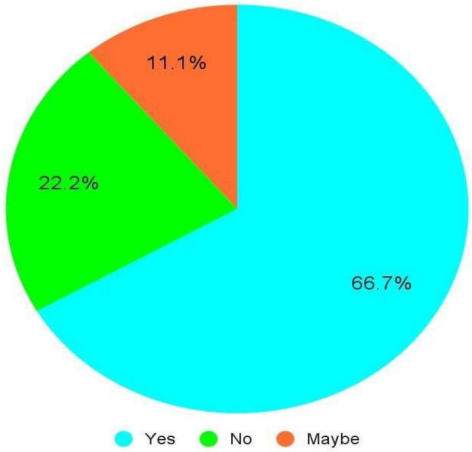
11) *Q11: Have you ever exceeded your budget or spent more than you intended while using UPI?*

- Yes
- No
- Don’t know
- I don’t have a budget



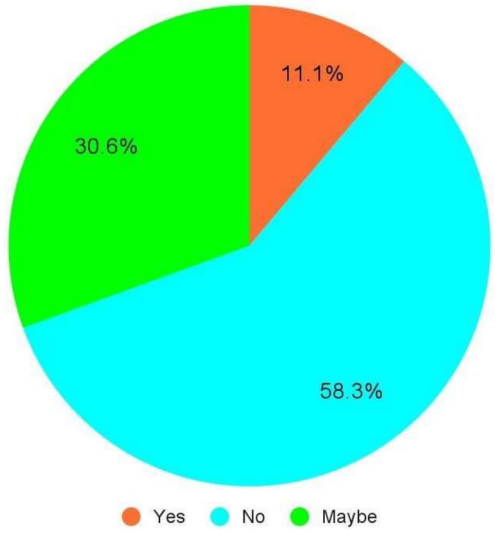
12) *Q12: Have you ever considered moving to another payment method after spending more than you intended while using UPI?*

- Yes
- No
- Maybe

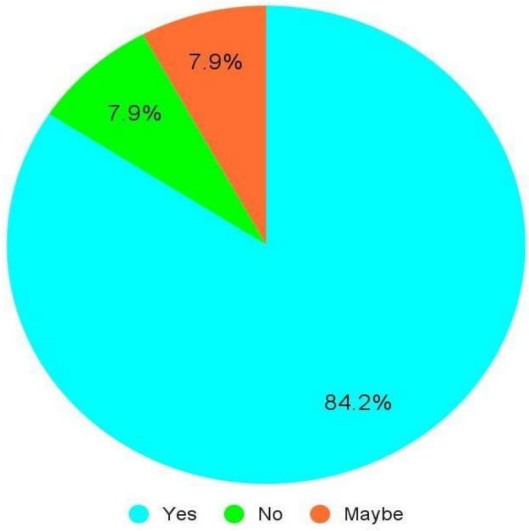


ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538
Volume 13 Issue XI Nov 2025- Available at www.ijraset.com

13) *Q13: Have you ever faced any issues with UPI transactions, such as incorrect amounts or fraudulent activities?*
- Yes
- No
- Maybe



14) *Q14: Would you recommend UPI to others as a safe and secure payment method?*
- Yes
- No
- Maybe



V. FINDINGS

A. Based on Primary Data

1) UPI is used daily by most respondents.
2) Spending has increased for the majority after adopting UPI.
3) Users frequently overspend due to convenience and instant payments.
4) Cashback rewards often influence purchase decisions.
5) Younger consumers are the highest adopters.
6) A portion of users face transaction errors or security concerns.
7) Many consider switching payment methods after overspending.

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VI. LIMITATIONS OF THE STUDY

1) Small sample size of 100 respondents.
2) Convenience sampling may not represent entire population.
3) Data is self-reported and may include subjective bias.
4) Lack of geographic diversity.
5) Limited age variability due to youth-heavy sample group.
6) Cannot generalize results to all demographics.

VII. CONCLUSION

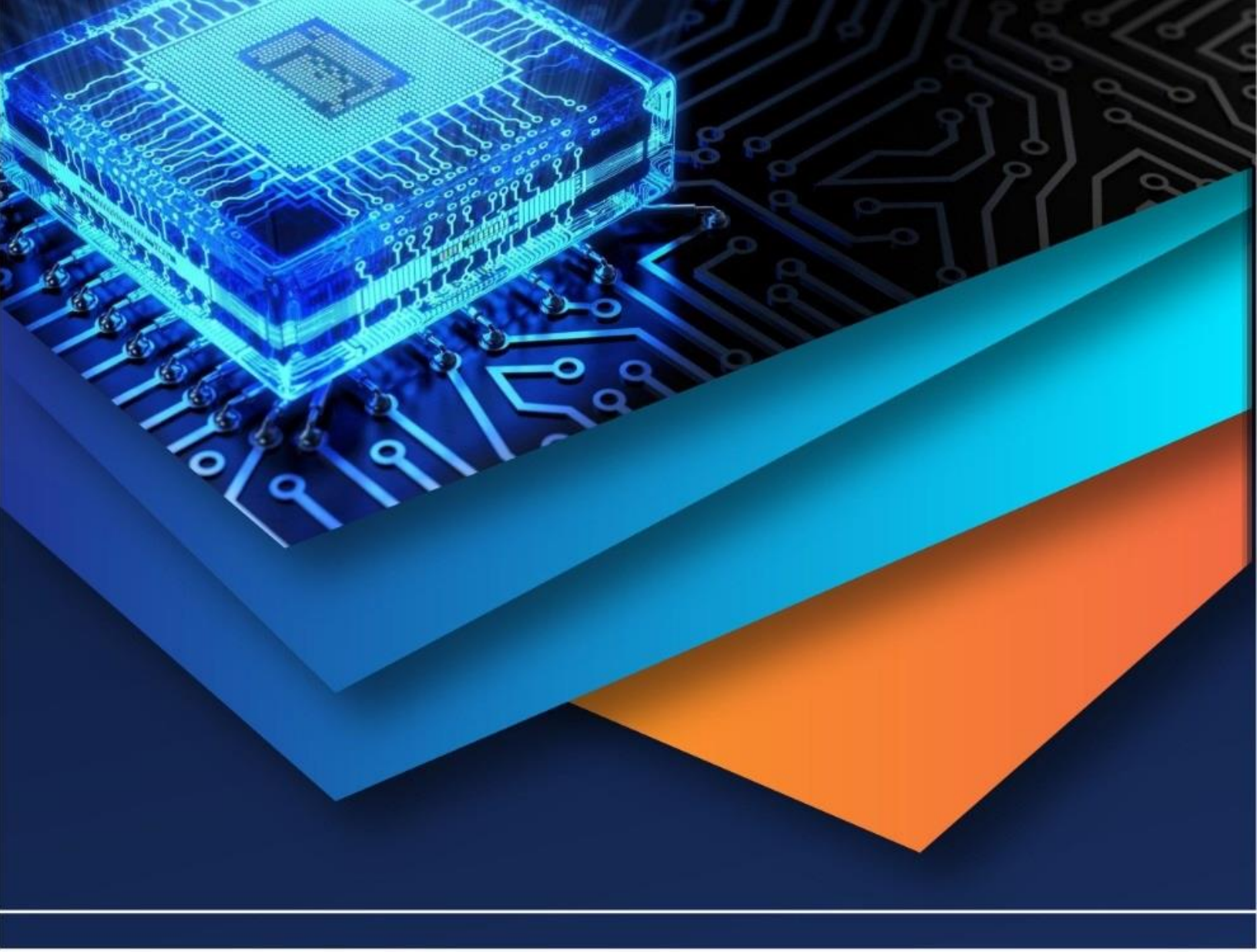
UPI has significantly transformed consumer financial behavior in India. The research clearly shows an increase in spending frequency, digital transactions, and impulsive purchases. Young users, in particular, show strong dependency on UPI for day-to-day expenses due to its ease and speed.

However, the study also highlights issues such as overspending, lack of budgeting discipline, and occasional transaction errors. Despite these challenges, UPI continues to dominate the digital payments ecosystem and reshape consumer spending patterns in profound ways.

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