ISSN (Online): 2455-3662
EPRA International Journal of Multidisciplinary Research (IJMR) - Peer Reviewed Journal
Volume: 11| Issue: 6| June 2025|| Journal DOI: 10.36713/epra2013 || SJIF Impact Factor 2025: 8.691 || ISI Value: 1.188

THE SUCCESS OF UPI: A COMPARATIVE STUDY OF GENZ AND MILLENNIALS

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Article DOI: https://doi.org/10.36713/epra22665
DOI No: 10.36713/epra22665

ABSTRACT

This research investigates the differences in the adoption, usage behaviors, and user experiences of the Unified Payments Interface (UPI) between two generational groups: Gen Z (18–24 years) and Millennials (25–40 years) in India. UPI, an advanced real-time digital payment system, has played a pivotal role in transforming India's financial landscape by enabling seamless peer-to-peer (P2P) and peer-to-merchant (P2M) transactions. While UPI has achieved widespread adoption, there remains a notable gap in academic research regarding the generational variations in how UPI is perceived and utilized. This study aims to fill that gap by identifying the key factors that influence UPI adoption, trust, user satisfaction, and the challenges encountered by each generation. A cross-sectional survey was conducted with 200 participants, equally divided between Gen Z and Millennials, to gather insights on UPI usage frequency, awareness of advanced features such as UPI Credit, and the impact of digital literacy, security concerns, and trust. The findings reveal that Gen Z exhibits a stronger inclination toward adopting UPI, driven by its convenience, speed, and user-friendly interface. In contrast, Millennials express greater concerns about transaction security, reliability, and system performance. Statistical methods such as independent samples t-tests and one-way ANOVA were utilized to analyze the differences in usage patterns between the two generational cohorts. The results provide valuable insights for fintech developers, policymakers, and financial institutions looking to enhance UPI's user engagement, particularly in promoting digital financial inclusion and advancing the cashless economy initiative. Furthermore, the study offers practical recommendations for improving UPI's operational efficiency, security measures, and user engagement across different demographic groups, supporting the broader goals of technology acceptance and financial digitalization in emerging markets.

KEYWORDS: *Unified Payments Interface (UPI),Digital Payment Systems, Fintech Adoption, Mobile Payments, Cashless Economy, Technology Acceptance.*

INTRODUCTION

In recent years, the digital revolution in India's financial landscape has presented a once-in-a-lifetime opportunity to redefine how people transact, interact with banks, and manage personal finance. Among the most transformative innovations is the *Unified Payments Interface (UPI),* a real-time payment system developed by the National Payments Corporation of India (NPCI). Launched in 2016, UPI has rapidly evolved into a critical tool driving India's shift toward a cashless economy, offering seamless peer-to-peer and peer-to-merchant transactions with unmatched convenience. It bridges the gap between banks, users, and merchants through a unified platform accessible via smartphones. The exponential growth of UPI not only signifies a shift in payment preferences but also represents a broader transition in how technology integrates with consumer behavior particularly among the two most dynamic generational cohorts: Gen Z and Millennials.

This moment is more than just a digital leap; it is a lifetime opportunity to study how young, tech-savvy populations are redefining financial habits in a digital-first economy. India, with its large youth demographic and increasing internet penetration, serves as an ideal testing ground for digital financial inclusion. UPI, being at the heart of this transformation, offers researchers and policymakers rare insights into user behavior, trust in fintech, and the digital adoption curve across different age segments. Understanding how Gen Z (typically aged 18–24) and Millennials (typically aged 25–40) perceive, adopt, and experience UPI can unlock valuable knowledge for future digital policy design, product innovation, and financial literacy programs.

However, despite its remarkable success, UPI also faces critical challenges that demand closer academic and empirical examination. A bird's eye view of the current ecosystem reveals multiple underlying problems such as transaction failures, security concerns, fraudulent activities, and varying levels of digital literacy among users. While some individuals have seamlessly integrated UPI into their daily financial lives, others remain hesitant or inconsistent in its use, often due to trust issues, poor user experience, or lack of awareness about advanced features such as UPI Credit. Moreover, there are generational differences in how users respond to failed transactions, perceive risk, or explore value-added benefits like cashback, rewards, or BNPL (Buy Now Pay Later) options. These issues reflect a gap in understanding UPI adoption and its effectiveness from the user's perspective, especially when segmented by age demographics.

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The beneficiaries of this research are multifaceted. Fintech companies and app developers can leverage the insights to tailor user interfaces, reward systems, and onboarding processes for different age groups. Policy makers and regulators can use the findings to design more inclusive digital literacy campaigns and create robust guidelines for consumer protection. Banks and financial institutions stand to gain by better aligning their digital services with the expectations of younger consumers. Furthermore, academics and researchers will find this study valuable in expanding the literature on digital financial behavior, generational analysis, and technology acceptance in emerging markets like India. Finally, the users themselvesn especially those underserved or hesitant could indirectly benefit from improved UPI features and awareness that emerge from a deeper understanding of the user landscape.

By diving into the comparative experiences of Gen Z and Millennials, this research aims not only to evaluate the success of UPI but also to contribute meaningful recommendations for enhancing its reliability, accessibility, and impact in shaping the future of digital finance in India.

REVIEW OF LITERATURE

Lakshmi and Saranya (2025) investigate the growing influence of UPI transactions on the transition to a cashless economy in Coimbatore. Their study reveals that younger generations are the primary adopters of UPI due to its ease, speed, and security. Despite its widespread usage, challenges such as digital literacy gaps and technical concerns persist. The findings suggest that UPI has reduced dependency on cash and enhanced financial inclusion. However, a complete shift is gradual, with many users still preferring mixed payment modes.

Verma, Purohit & Vidani (2024) conducted a comprehensive study on the evolution and recent developments in the Unified Payments Interface (UPI) in India. Their literature review highlights the transformative role of UPI in advancing digital payments, driving financial inclusion, and reshaping banking practices. Previous studies they reference emphasize UPI's user-friendly interface, interoperability, and real-time transaction capabilities, which have made it a preferred mode of payment among Indian users.

Bhatia and Shete (2024) studied the usage of UPI transactions among Gen Z and Millennials in Mumbai. The paper explores how demographic factors like age, education, income, and employment influence digital payment behavior. The authors highlight the role of convenience, speed, and user-friendliness as key drivers of UPI adoption. Security concerns, such as cyber fraud and delayed refunds, emerged as major challenges. Using statistical tools, the study found significant variations in UPI usage across different groups. It provides insights into evolving financial habits and stresses the importance of digital awareness and infrastructure improvement. The findings are relevant for policymakers, financial institutions, and digital platforms.

Hirapara, Sheth, and Vidani (2024) explore the level of awareness about digital payment frauds among Gen-Z individuals in Ahmedabad. The study emphasizes the rising use of digital platforms like UPI and e-wallets, paired with increasing risks such as phishing and identity theft. Despite limited awareness differences within age subgroups, the authors find that most Gen-Z users still prefer digital payments due to convenience. Personal experiences with fraud significantly impact awareness, while general caution and concern show weak associations with age. The study recommends targeted fraud education to enhance Gen-Z's digital security behavior.

Fahad & Shahid (2022) conducted a study to understand the factors influencing the adoption and recommendation of Unified Payment Interface (UPI) in India using the Diffusion of Innovation (DOI) theory. Their research highlighted the role of relative advantage, complexity, and observability in positively influencing users' intention to use UPI. They also found that satisfaction and intention to use are significant predictors of the intention to recommend.

Mahesh and Bhat (2021) conducted a case study on the Unified Payment Interface (UPI) to analyze its growth, adoption, and position within India's digital payment ecosystem. The authors highlight how the introduction of UPI by the National Payments Corporation of India (NPCI) has significantly transformed the way digital payments are made in the country. They emphasize that the post-demonetization period and the Digital India initiative acted as major catalysts for the rapid adoption of UPI. The study presents UPI as a cost-effective, secure, and user-friendly platform that has enabled seamless peer-to-peer and business transactions through mobile applications. Through a SWOT analysis, the authors identify UPI's strengths in simplicity, interoperability, and financial inclusion, while also acknowledging challenges such as transaction delays and cybersecurity concerns. The paper also notes the substantial increase in transaction volumes and values on the UPI platform, reflecting its growing dominance in the retail payment sector. Overall, Mahesh and Bhat conclude that UPI plays a crucial role in India's journey toward a cashless economy and holds immense potential for further innovation and integration in the digital finance space.

Ghosh (2021) presents a comprehensive review of existing studies on the adoption of digital payment systems by consumers, highlighting the role of ICT, internet penetration, and smartphone usage in driving the shift from cash to digital transactions. The study examines how post-demonetization India witnessed a surge in the use of digital wallets, UPI, and mobile banking applications. Ghosh emphasizes that convenience, security, speed, and promotional rewards are key motivators for consumers. He also identifies persistent concerns such as security risks, lack of awareness in rural areas, and infrastructural barriers. The review explores various digital modes like internet banking, plastic cards, UPI, and mobile wallets, outlining their growing popularity. It is concluded that government initiatives like Digital India and increased internet accessibility are major enablers of this shift. The study calls for further awareness and infrastructure development to strengthen adoption in semi-urban and rural regions.

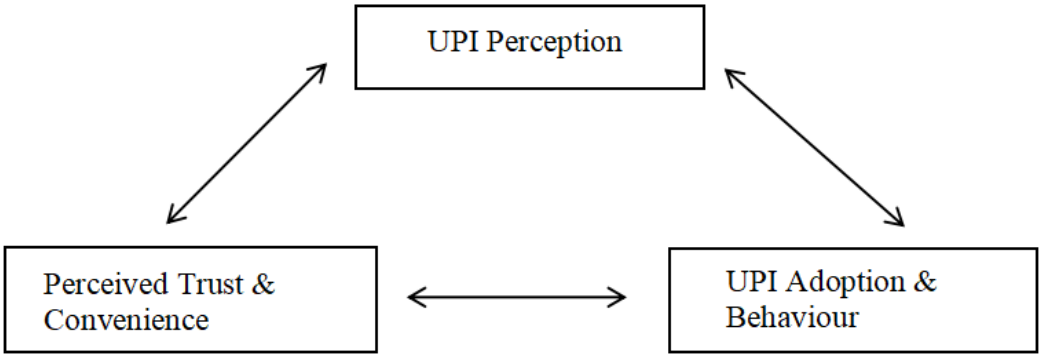
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Harshini (2021) explores the comparative advantages and limitations of Unified Payments Interface (UPI) and traditional payment methods in terms of efficiency, accessibility, user adoption, and security. The study finds UPI to be superior in transaction speed, cost-effectiveness, and operational efficiency due to its digital infrastructure and real-time processing. In contrast, traditional methods like cash and cards remain relevant for their universal acceptance and familiarity. While UPI appeals to tech-savvy users, its reliance on smartphones and internet connectivity poses challenges in less connected regions. The paper also highlights strong growth in UPI adoption, driven by government initiatives and digital literacy. Ultimately, Harshini concludes that both systems have distinct strengths and will likely coexist, evolving with advancements in technology and changing user preferences.

Aggarwal et al. (2021) investigate India's transition from a cash-based to a cashless economy, emphasizing the role of technology, government initiatives, and changing consumer behavior. The study highlights how demonetization acted as a catalyst, pushing both consumers and businesses toward adopting digital payment methods like UPI and mobile wallets. Using primary data from 250 respondents, the research identifies demographic factors such as age, education, and marital status as influential in the adoption of digital transactions. The authors also underline infrastructural and awareness challenges in rural areas, despite high potential. Overall, the paper suggests that with increased digital literacy and government support, India is steadily moving toward a more inclusive and efficient cashless future.

Philip (2019) examines the impact of Unified Payment Interface (UPI) on customer satisfaction, emphasizing its role as a cost-effective and technologically advanced payment system. The study finds that UPI has significantly influenced user preferences due to its speed, convenience, and 24/7 accessibility. Using regression and ANOVA analysis, the author concludes that customer satisfaction is positively affected by UPI services compared to traditional methods. The research also identifies a strong correlation between education level and adoption of UPI, suggesting that more educated users are more likely to embrace digital payments. Overall, UPI is seen as a transformative tool in India's journey toward a cashless economy.

HYPOTHESIS DEVELOPMENT



Research Gap

While extensive research has explored the growth, adoption factors, and technological infrastructure of Unified Payments Interface (UPI) in India, there remains a notable gap in understanding the comparative user experiences between generational cohorts particularly Gen Z and Millennials. Existing literature, such as studies by Bhatia & Shete (2024) and Hirapara et al. (2024), have examined demographic influences and awareness levels in isolation but lack a focused comparative analysis of how these two digitally active generations perceive and engage with UPI. Most studies generalize user behavior without addressing the nuanced psychological, behavioral, and experiential differences that shape digital payment habits across age groups. This research addresses that gap by offering a generational perspective on UPI usage analyzing differences in adoption motivators, trust levels, usage frequency, perceived risks, and expectations thus contributing to a more targeted understanding for policymakers and fintech developers.

Objectives

1. To analyze the digital payment behavior of Gen Z and Millennials using UPI.
2. To evaluate the level of trust and satisfaction with UPI as a preferred fintech solution.
3. To assess the awareness and adoption of UPI features such as UPI Credit among young users.

RESEARCH METHODOLOGY

1. Research Design

This study adopts a quantitative, cross-sectional research design to explore the usage patterns, awareness, trust, and challenges related to Unified Payments Interface (UPI) among two generational cohorts: Gen Z (18–24 years) and Millennials (25–40 years). A survey-based approach was employed to collect structured responses from participants using a pre-designed questionnaire.

2. Sampling Technique and Respondents

A non-probability purposive sampling technique was used to target individuals who fall within the Gen Z and Millennial age brackets and are active users of digital payment systems. The sample size consisted of 200 respondents, equally distributed across the two generational groups to ensure balanced representation.

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3. Data Collection Method

Primary data was collected using a structured Google Form questionnaire, which was shared digitally via email, social media platforms, and personal contacts. The questionnaire was divided into multiple sections:

i. Demographic details (Age, Occupation, Income)
ii. UPI usage frequency and preferences
iii. Awareness of UPI features like UPI Credit
iv. Challenges experienced
v. Trust, security, and satisfaction levels

Responses were recorded on a 5-point Likert scale ranging from Strongly Disagree (1) to Strongly Agree (5) wherever applicable.

4. Data Analysis Tools and Techniques

The collected data was coded and analyzed using IBM SPSS Statistics software. The following statistical techniques were applied:

i. Reliability Analysis (Cronbach's Alpha): To measure internal consistency of Likert-scale sections
ii. Independent Samples t-test: To compare mean differences in UPI usage and perception between Gen Z and Millennials.
iii. One-Way ANOVA: To examine the influence of age on UPI-related behaviors.

5. Scope and Limitations

This study is limited to young digital users in India, specifically individuals from the Gen Z and Millennial age groups. As the sampling method used is non-probability purposive sampling, the findings may not be fully generalizable to the broader population. Furthermore, since the data was collected through self-administered questionnaires, responses may be subject to personal bias, social desirability, or varying interpretations of the Likert scale items.

Despite these limitations, the study offers meaningful insights into the usage patterns, awareness, and challenges associated with UPI among digitally active youth, and contributes to the understanding of generational trends in fintech adoption.

ANALYSIS AND INTERPRETATION

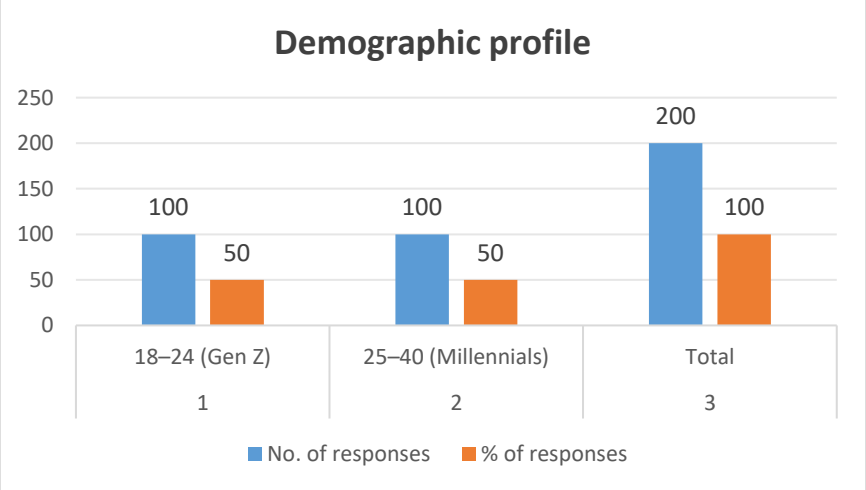
Data analysis has been done after careful editing, coding, and tabulation of data.

Demographic profile of the responses

Table no. 1 – Table showing demographic details of the respondents.

Sl. Number	Age	No. of responses	% of responses
1.	18–24 (Gen Z)	100	50.00
2.	25–40 (Millennials)	100	50.00
3.	Total	200	100.00

Figure no. 1 – Figure showing data representation of demographic details of the respondents.



The demographic profile shows an equal distribution of respondents, with 100 individuals each from the Gen Z (18 – 24) and Millennial (25 – 40) age groups, accounting for 50% each of the total 200 responses. This ensures balanced representation from both generations in the study.

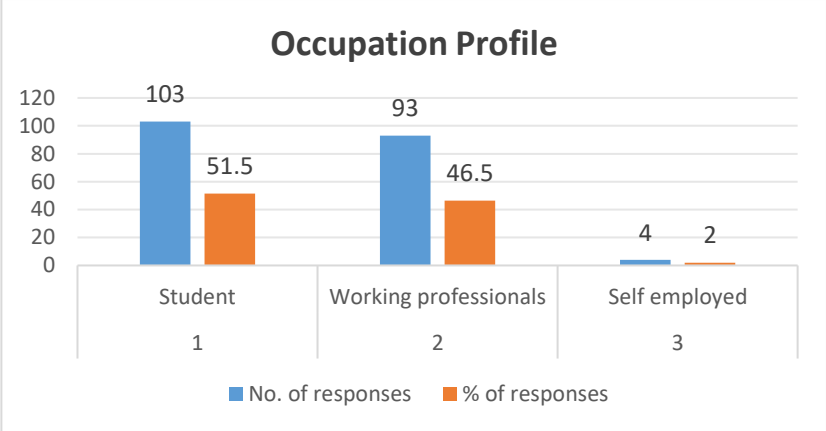
Occupation profile of the respondents

Table no. 2 – Table showing occupation details of the respondents.

Sl. Number	Occupation	No. of responses	% of responses
1.	Student	103	51.5
2.	Working professionals	93	46.5
3.	Self employed	4	2

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Figure no. 2 – Figure showing data representation of demographic details of the respondents.



The occupation profile indicates that the majority of respondents are students (51.5%) and working professionals (46.5%), with 103 and 93 responses respectively. A very small portion (2%) of respondents identified as self-employed, suggesting that the findings primarily reflect the perspectives of students and working professionals.

Cronbach's Alpha

The Cronbach's Alpha value for the scale is 0.782, which indicates good internal consistency among the 19 items included in the analysis. Generally, a Cronbach's Alpha above 0.7 is considered acceptable for social science research. Additionally, the standardized items show an even higher alpha of 0.867, suggesting that the scale performs very well when standardized. This confirms that the items used in the questionnaire reliably measure the intended construct.

Result of t-test

Table no. 3 – Table showing T-test on factors influencing the use of UPI

Factors influencing the use of UPI		Mean	Std. Deviation	t-value	p-value
Frequency of UPI Usage for Daily Transactions	Gen Z	3.92	.273	3.192	.002
	Millennial	3.73	.529		
Preference for UPI Over Cash	Gen Z	3.92	.273	5.446	.000
	Millennial	3.54	.642		
Speed and Time Efficiency of UPI Transactions	Gen Z	3.96	.197	3.574	.000
	Millennial	3.80	.402		
Influence of Rewards and Cashback on UPI Usage	Gen Z	3.88	.327	5.963	.000
	Millennial	3.42	.699		
Trust in UPI as a Secure Payment Method	Gen Z	3.92	.273	2.470	.014
	Millennial	3.80	.402		
Likelihood of Recommending UPI to Others	Gen Z	3.84	.465	3.403	.001
	Millennial	3.61	.490		

Interpretation

An independent sample t-test was performed to assess generational differences in UPI usage between Gen Z and Millennials. The results indicated statistically significant differences across all variables, with Gen Z consistently showing higher mean scores. Gen Z respondents reported more frequent daily use of UPI, a stronger preference for UPI over cash, and greater agreement that UPI is quick and time-saving. They were also more motivated by cashback and rewards, expressed higher trust in UPI's security, and were more likely to recommend it as a primary payment method. These findings highlight that Gen Z demonstrates a stronger adoption and more favorable perception of UPI compared to Millennials, reflecting a generational shift toward digital payment preferences.

Hypothesis for ANOVA testing

Alternative Hypotheses (H_1)

- There is a significant difference in the frequency of UPI usage for daily transactions among different age groups.
- There is a significant difference in the preference for UPI over cash among different age groups.
- There is a significant difference in awareness of credit features in UPI among different age groups.
- There is a significant difference in the perception of speed and time efficiency of UPI transactions among different age groups.
- There is a significant difference in the level of trust in UPI as a secure payment method among different age groups.

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- There is a significant difference in the likelihood of recommending UPI to others among different age groups.

Result of ANOVA

Table no. 4 – Table showing computation of ANOVA (AGE)

(Age Group as Factor)		Sum of Squares	Mean Square	F	Sig.	Accepted/Rejected
Frequency of UPI Usage for Daily Transactions	Between Groups	1.805	1.805	10.191	0.002	Rejected
	Within Groups	35.07	0.177			
Preference for UPI Over Cash	Between Groups	7.22	7.22	29.659	0.000	Rejected
	Within Groups	48.2	0.243			
Awarness of credit features in UPI	Between Groups	2.257	1.128	2.901	0.57	Accepted
	Within Groups	76.168	0.389			
Speed and Time Efficiency of UPI Transactions	Between Groups	1.28	1.28	12.774	0.000	Rejected
	Within Groups	19.84	0.1			
Trust in UPI as a Secure Payment Method	Between Groups	0.72	0.72	6.103	0.014	Rejected
	Within Groups	23.36	0.118			
Likelihood of Recommending UPI to Others	Between Groups	2.645	2.645	11.579	0.001	Rejected
	Within Groups	45.23	0.228			

Interpretation

The findings from the one-way ANOVA indicate that age group significantly influences several aspects of user behavior and perceptions regarding UPI (Unified Payments Interface) usage. Notably, the *frequency of UPI usage for daily transactions* shows significant variation across age groups ($p = 0.002$). This suggests that younger users, particularly Gen Z, are more frequent users of UPI for routine transactions compared to older groups. Their higher level of engagement may be attributed to greater digital literacy and a stronger inclination toward adopting emerging technologies.

Similarly, the *preference for UPI over cash* differs significantly by age ($p = 0.000$), with younger individuals favoring UPI more than older users. This points toward a generational shift in payment preferences, where convenience, speed, and digital accessibility take precedence over traditional cash-based methods. This trend aligns with the overall increase in digital transactions and the broader move toward a cashless economy, especially among youth.

Perceptions regarding the *speed and time efficiency of UPI transactions* also vary significantly among different age groups ($p = 0.000$). Gen Z users tend to view UPI as faster and more efficient, reinforcing their positive experiences with the technology. This perception likely contributes to their frequent use and growing reliance on UPI platforms for a variety of transaction types, from bill payments to online shopping.

When it comes to *trust in UPI as a secure payment method,* the differences across age groups are statistically significant ($p = 0.014$). Younger users express higher levels of trust in the security and reliability of UPI systems. This greater confidence may be linked to their familiarity with digital ecosystems and a stronger comfort level with technology-driven financial tools.

The *likelihood of recommending UPI to others* also varies significantly by age ($p = 0.001$), with Gen Z again showing a stronger tendency to endorse the platform. This reflects both satisfaction with their user experience and a positive outlook on the continued growth and adoption of digital payments.

Interestingly, *awareness of credit features in UPI* does not differ significantly across age groups ($p = 0.057$). This suggests that despite the higher overall engagement of Gen Z with UPI, knowledge about specific features such as credit lines or BNPL (Buy Now, Pay Later) options remains limited across all age groups. This presents an opportunity for fintech companies and policymakers to increase awareness and promote the usage of such features through targeted education and marketing.

In summary, the analysis reveals that *Gen Z stands out as the most engaged and optimistic age group* in terms of UPI usage. They are not only more active users but also perceive the platform as fast, secure, and preferable to cash. While their trust and willingness to recommend UPI are notably high, the general lack of awareness about credit-related features highlights a common gap across all age categories. These insights can inform strategies for expanding UPI adoption and feature utilization across different segments of the population.

FINDINGS

i. **Generational Digital Immersion**
Gen Z demonstrates significantly higher engagement with UPI, integrating digital payment tools more frequently into everyday financial behavior. Their tech fluency translates into faster adoption and habitual use of mobile-based payment systems.

ii. **User Experience and Interface Sensitivity**
Younger users perceive UPI as more seamless and user-friendly than their Millennial counterparts. Their higher expectations for digital usability underscore the importance of app design and intuitive interfaces in driving continued engagement.

iii. **Expanded Functional Usage**
Gen Z utilizes UPI for a wider range of transaction types,

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including peer-to-peer transfers, bill payments, and online shopping. This indicates a transition from UPI as a mere transactional tool to a versatile, multifunctional financial platform for younger users.

iv. **Incentive Responsiveness**
Financial rewards—such as cashback, referral bonuses, and promotional offers—are more impactful in influencing Gen Z's usage patterns. This cohort exhibits a clear behavioral link between gamified incentives and digital payment loyalty.

v. **Security Trust and Digital Advocacy**
Gen Z not only expresses stronger trust in UPI's security infrastructure but also demonstrates higher likelihood to recommend its use and support the vision of a fully cashless economy. This reinforces their role as key digital influencers in financial ecosystems.

Recommendations

i. **Redesign App Interfaces Based on Age Preferences**
UPI platforms should optimize their user interface by offering a simplified, guided experience for Millennials—featuring clear menus, tooltips for advanced features, and onboarding tutorials—while retaining fast, minimalist designs for Gen Z users who prefer intuitive navigation.

ii. **Develop Age-Specific Incentive Models**
Introduce differentiated reward strategies: cashback on recurring expenses (e.g., bills, rent) for Millennials who value utility-based savings, and gamified rewards such as transaction streak bonuses and referral leaderboards for Gen Z, who respond well to engagement-based incentives.

iii. **Strengthen In-App Security Communication**
Clearly communicate UPI's security protocols through short in-app messages, infographics, and notifications—particularly targeting Millennials to boost their confidence in digital payments. Real-time fraud alerts and tips on safe usage should be embedded within the user journey.

iv. **Integrate Financial Tracking and Budgeting Tools**
Embed features that allow users to track monthly spending, set budget limits, and view categorized expenses. Millennials may benefit from structured budget reminders, while Gen Z could engage more with visual dashboards and spending insights.

v. **Launch Peer-Led Advocacy Programs**
Leverage Gen Z's strong digital influence by launching referral-based campaigns, student ambassador programs, and social media challenges to promote UPI usage. These initiatives can help drive trust and adoption among Millennials through peer recommendations.

CONCLUSION

This study provides empirical evidence that generational differences significantly shape the adoption, usage, and perception of the Unified Payments Interface (UPI) in India. Gen Z emerges as the more digitally immersed cohort—characterized by higher adoption intensity, broader transactional use, and stronger trust in UPI's security and functionality. Millennials, while engaged, display comparatively moderated usage behaviors and exhibit heightened sensitivity to security concerns and the need for clearer app navigation.

From a theoretical perspective, this study extends the application of generational cohort theory and the Technology Acceptance Model (TAM) by demonstrating how digital native status correlates with greater adoption and trust in fintech innovations. It reinforces the role of age-specific psychological and behavioral dimensions such as risk perception, convenience valuation, and trust as critical moderators in technology acceptance. These findings contribute to a more nuanced understanding of how digital payment ecosystems are internalized by different age groups, particularly in emerging markets.

For practitioners, the results offer actionable insights for fintech developers, banks, and policymakers. Designing age-responsive user experiences, security communications, and incentive mechanisms is essential for broadening adoption and deepening engagement. Fintech platforms should prioritize adaptive features and modular experiences, ensuring that UPI's design caters to both exploratory, incentive-driven Gen Z users and utility-focused, security-conscious Millennials. Additionally, policy interventions aimed at enhancing digital financial literacy and transaction security can further bridge generational disparities in fintech adoption and accelerate India's progress toward a cashless economy.

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