



**DETERMINANTS OF DIGITAL WALLET ADOPTION AMONG GENERATION Z:
THE ROLE OF DIGITAL SELF-EFFICACY, TRUST, AND ATTITUDE**

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Abstract

Digital wallets are offering secure, fast, and convenient alternatives to cash transactions and reshaping the financial world. Despite their growing presence in emerging economies, adoption among Generation Z in Pakistan remains inconsistent due to psychological readiness and trust-related challenges. This study investigates the role of digital self-efficacy and trust in shaping behavioral intention to adopt e-wallets, with attitude serving as a mediating variable. By using a structured Likert-scale questionnaire, a quantitative, cross-sectional survey was conducted among university students in Rawalpindi-Islamabad. Data were analyzed through SmartPLS, employing reliability, validity, and structural equation modeling. Results reveal that digital self-efficacy and trust significantly enhance positive attitudes, which in turn strongly predict behavioral intention to adopt e-wallets. The findings contribute to technology adoption literature by integrating psychological



constructs into existing acceptance models, while offering practical insights for fintech providers and policymakers. Strengthening trust mechanisms, improving digital literacy, and fostering favorable user attitudes are recommended to accelerate adoption. This study highlights the role and value of psychological and attitudinal factors in digital finance adoption, providing both theoretical and practical implications for future research and policy development.

Introduction

Digital payment technologies are revolutionizing financial transactions by offering secure, fast, and convenient alternatives to cash. Among these innovations, electronic wallets (e-wallets) have become an important tool for financial inclusion, enabling users to store, transfer, and purchase through mobile applications. Their adoption has increased globally, yet in emerging markets such as Pakistan, adoption remains uneven due to technological, psychological, and socio-cultural barriers (Islam et al., 2024; Nguyen et al., 2025).

Digital self-efficacy, defined as an individual's confidence in their ability to use digital technologies effectively, is an important determinant of adoption. Users with higher self-efficacy are more likely to adopt and persist in using e-wallets, while those with lower confidence often perceive digital payments as complex or unsafe (Nur & Panggabean, 2021; Kelly, 2024). Alongside self-efficacy, trust plays

a pivotal role in shaping consumer behavior. Trust in the reliability, security, and integrity of service providers is essential, particularly in emerging markets where concerns about fraud, privacy, and institutional credibility are prevalent and observed oftenly. (Belmonte et al., 2024; Andhini & Muat, 2025).

Traditional adoption models such as the Technology Acceptance Model (TAM) emphasize perceived usefulness and ease of use but often overlook psychological constructs like self-efficacy and trust. Moreover, attitude users' overall evaluation of e-wallets—acts as a mediating factor, strengthening or weakening the relationship between self-efficacy, trust, and behavioral intention. Existing literature has largely neglected this mediating role, creating a theoretical gap in understanding adoption behavior among digital natives (Rosli et al., 2023; Gómez-Hurtado et al., 2025).



In Pakistan, despite increasing smartphone usage and fintech initiatives, adoption of e-wallets remains below expectations (Riipa, et al., 2026; Hossain, et al., 2025). Factors like institutional trust deficits, low digital literacy, and cultural reliance on cash continue to hinder widespread acceptance (Malik et al., 2025; State Bank of Pakistan, 2025). This highlights the need for context-specific research that integrates psychological and attitudinal factors into adoption frameworks.

Accordingly, this study aims to answer the following research questions:

- ❖ How does digital self-efficacy affect attitudes toward e-wallet adoption in Pakistan?
- ❖ How can trust shape users' attitudes toward e-wallets?
- ❖ To what extent does attitude mediate the relationship between digital self-efficacy and behavioral intention?
- ❖ Which elements influence users' intention to utilize electronic payment systems in Pakistan?

The objectives are to examine the role of digital self-efficacy and trust in shaping attitudes, to test attitude as a mediating factor, and to assess behavioral intention among Generation Z users. This research is significant because it contributes to adoption theory by integrating

psychological factors into TAM, while offering practical knowledge for fintech providers and policymakers to strengthen trust, improve digital literacy, and foster favorable user attitudes. The scope is limited to Generation Z university students in Rawalpindi-Islamabad, focusing on mobile-based e-wallet services rather than broader fintech platforms.

Literature Review

Theoretical Background

The Technology Acceptance Model (TAM) (Davis, 1989) emphasizes perceived usefulness (PU) and perceived ease of use (PEOU) as predictors of behavioral intention and has been the most widely used framework to explain technology adoption. However, TAM has been criticized for neglecting motivational and psychological factors. Rosli et al. (2023) extended TAM by incorporating Self-Determination Theory (SDT) and Self-Efficacy Theory, showing that digital self-efficacy and intrinsic motivation highly influence adoption. Gómez-Hurtado et al. (2025) expanded TAM further by adding trust, security, privacy, and perceived risk, highlighting trust as a decisive factor in low-trust financial environments.

Other frameworks such as UTAUT (Venkatesh et al., 2003) and UTAUT2



(Venkatesh et al., 2012) have also been applied to mobile payment adoption, integrating constructs like performance expectancy, effort expectancy, social influence, and facilitating conditions. Recent adaptations focus on hedonic motivation, habit, and personal innovativeness (Herzallah et al., 2025), reflecting the psychological and experiential dimensions of adoption.

Digital Self-Efficacy

Digital self-efficacy refers to confidence in one's ability to use digital technologies effectively. Studies in Indonesia and Ghana confirm that higher self-efficacy leads to greater adoption of mobile payments (Nur & Panggabean, 2021; Kelly, 2024). Research in Greece and Pakistan links effort expectancy and digital literacy to self-efficacy, reinforcing its role as a precursor to positive attitudes toward fintech (Masood & Muqadas, 2025; Dendinos & Spai, 2024). Self-efficacy lowers perceived barriers and increases confidence in handling online transactions. In contexts where digital literacy is unstable, self-efficacy becomes an important determinant of adoption, particularly among Generation Z who are digital natives but still vary in confidence levels.

Trust

Trust has consistently emerged as a decisive factor in digital finance adoption. Belmonte et al. (2024) found that trust in security and institutional reliability strongly predicts attitudes and behavioral intention among Gen Z in the Philippines. Malik et al. (2025) emphasized that in Pakistan, trust operates at multiple levels – technological, institutional, and social – and without it, adoption remains weak and low.

Studies in Thailand and Bangladesh similarly confirm that trust reduces perceived risk and increases confidence in e-wallets (Kraiwanit et al., 2024; Islam et al., 2024). Trust is particularly important in emerging markets where fraud concerns and institutional credibility issues are prevalent. Without trust, even perceived usefulness and ease of use fail to translate into adoption.

Attitude as Mediator

Attitude represents users' overall perception of e-wallets, integrating perceptions of usefulness, security, enjoyment, and social influence. Research shows that attitude mediates the relationship between self-efficacy, trust, and behavioral intention (Adiani et al., 2023; Jingnan et al., 2023).

Hedonic motivation (enjoyment) and utilitarian values (convenience, efficiency)



further influences attitudes, particularly among Generation Z (Lee et al., 2023; Kelly, 2024). Positive attitudes strengthen the link between psychological constructs and behavioral intention, while negative attitudes weaken it. This mediating role of attitude has been underexplored in prior studies, creating a gap that this research addresses.

Empirical Findings

Cross-country studies show both similarities and contextual differences in adoption drivers. In Indonesia, financial knowledge and transactional safety were found to lower risk and enhance adoption (Rahayu et al., 2025). In Vietnam, socio-economic factors such as education and income were critical alongside technological constructs (Nguyen et al., 2025). In Pakistan, institutional trust deficits and cultural reliance on cash remain major barriers (Malik et al., 2025). These findings suggest that while digital self-efficacy and trust are universal determinants, their relative

importance varies by context. In low-trust environments, trust dominates; in digitally literate populations, self-efficacy plays a stronger role.

Conceptual Framework

By examining the prior studies, this research proposes a framework where digital self-efficacy and trust act as foundations of attitude, which in turn mediates their effect on behavioral intention to adopt e-wallets. This model addresses theoretical gaps by integrating psychological factors into TAM and contextualizing adoption within Pakistan's socio-economic environment.

Hypotheses:

- H1: Digital self-efficacy positively influences attitude toward e-wallets.
- H2: Trust positively influences attitude toward e-wallets.
- H3: Attitude positively influences behavioral intention to adopt e-wallets.
- H4: Attitude mediates the relationship between digital self-efficacy, trust, and behavioral intention.

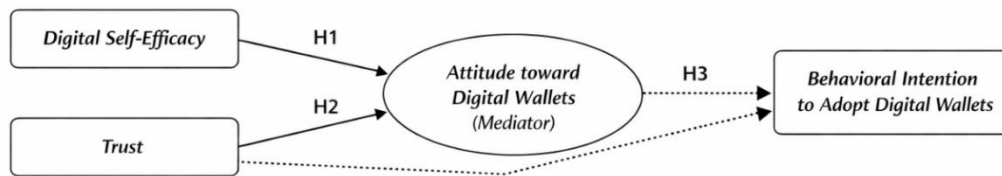


Figure 1. Conceptual Framework of Behavioral Determinants Influencing Digital Wallet Adoption among Generation Z Consumers

Research Methodology

Research Design

This study adopts a quantitative, cross-sectional survey design, collecting data at a single point in time from Generation Z university students in Rawalpindi and Islamabad. The design is causal and explanatory, aiming to test the influence of digital self-efficacy and trust (independent variables) on attitude toward e-wallets (mediating variable) and behavioral intention to adopt e-wallets (dependent variable).

Population of the Study

The population comprises Generation Z students enrolled in public and private

universities in Rawalpindi and Islamabad. This group was selected because Gen Z represents the most active and potential adopters of digital financial technologies, including e-wallets. Both undergraduate and postgraduate students were included to guarantee diversity and relevance.

Sampling Technique

A non-probability convenience sampling method was utilized. This approach was chosen due to accessibility, resource constraints, and the exploratory nature of the study. Convenience sampling allowed the researcher to target respondents who are familiar with digital wallets and



willing to participate, ensuring practical feasibility and relevance.

Sample Size

The study targeted 250 respondents, consistent with norms in behavioral and social sciences research. This sample size provides sufficient statistical power for Structural Equation Modeling (SEM) and regression analysis, ensuring reliability and validity of results. It also reflects diverse perspectives across the Gen Z population.

Instrument and Measures

Primary data were collected using a structured questionnaire divided into two sections:

- ❖ Demographics (age, gender, education).
- ❖ Study Variables (Digital Self-Efficacy, Trust, Attitude toward E-Wallets, Behavioral Intention).
- ❖ Digital Self-Efficacy: Measured using six items adapted from the Pace Learning Systems Self-Efficacy Scale.
- ❖ Trust: Measured with five items adapted from Lu et al. (2011) and Srivastava et al. (2010), focusing on reliability, security, and integrity.
- ❖ Attitude toward E-Wallets: Measured with six items adapted from prior Malaysian adoption studies, assessing perceived benefits, convenience, and desirability.

Behavioral Intention: Measured with four items adapted from Zhao et al. (2010) and Venkatesh et al. (2012).

All items were rated on a 5-point Likert scale (1 = Strongly Disagree to 5 = Strongly Agree). In total, 21 items were included.

Pilot Testing

A pilot test was conducted with 20–30 Gen Z students from Rawalpindi and Islamabad to ensure clarity and reliability. Cronbach’s alpha was used to assess internal consistency, with values ≥ 0.7 considered acceptable. To optimize the questionnaire before full-scale data collection, feedback from pilot respondents was integrated.

Data Collection Procedure

Data were collected over 3–4 weeks using both online (Google Forms, university mailing lists, social media groups) and offline (printed questionnaires distributed in universities) methods. Before participation, respondents were informed of the study purpose, privacy, and consent requirements.

Data Analysis Techniques

Data analysis was conducted using SmartPLS software. The following steps were applied:

- ❖ Preliminary Analysis: Data cleaning, descriptive statistics (mean, SD, frequencies).



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❖ Reliability & Validity: Cronbach’s alpha, Confirmatory Factor Analysis (CFA), and discriminant validity checks.

Hypothesis Testing: SEM and path analysis to test direct and mediating relationships:

- ❖ Digital Self-Efficacy → Attitude
- ❖ Trust → Attitude
- ❖ Attitude → Behavioral Intention
- ❖ Mediation: Digital Self-Efficacy & Trust → Attitude → Behavioral Intention

Assumptions: Normality, linearity, multicollinearity (VIF).

Software: SmartPLS for SEM, CFA, and mediation analysis.

This methodology ensures reliable testing of the hypothesized relationships and

Table 1: Factor Loadings

	Outer loading
A1	0.873
A2	0.863
A3	0.889
A4	0.863
A5	0.902
A6	0.900
B14	0.873
BI1	0.889
BI2	0.921
BI3	0.910
DSE1	0.841
DSE2	0.868
DSE3	0.886

provides data driven evidence on how digital self-efficacy and trust, mediated by attitude, shape Generation Z’s intention to adopt e-wallets in Pakistan.

Results and Discussion

Measurement Model Assessment

The measurement model was analyzed using factor loadings, Cronbach’s alpha, composite reliability, average variance extracted(AVE), HTMT ratios, Fornell-Larcker criterion, VIF values, and model fit indices. Confirmatory Factor Analysis (CFA) confirmed that all factor loadings surpassed the recommended benchmark of 0.70, ranging from 0.827 to 0.921, indicating strong reliability and validity.

DSE4	0.859
DSE5	0.827
T1	0.835
T2	0.895
T3	0.890
T4	0.855
T5	0.846

Reliability and Convergent Validity

Cronbach’s alpha values ranged between 0.909 and 0.943, while composite reliability coefficients ranged between Table 2: Construct reliability and validity

0.932 and 0.955. AVE value were between 0.734 and 0.808, all exceeding the threshold of 0.50, confirming strong reliability and convergent validity .

	Cronbach's alpha	Composite reliability (rho_a)	Composite reliability (rho_c)	Average variance extracted (AVE)
A	0.943	0.944	0.955	0.778
B	0.920	0.921	0.944	0.808
DS				
E	0.909	0.910	0.932	0.734
T	0.915	0.917	0.937	0.748

Discriminant Validity

HTMT ratios remained below 0.90, and Fornell-Larcker criterion confirmed

discriminant validity, as each construct’s AVE square root surpassed its correlations with other constructs .

Table 3: Heterotrait-monotrait ratio (HTMT) - Matrix

	A	B
A		
B	0.930	
DSE	0.715	0.764
T	0.762	0.810



Table 4: Fornell-Larcker criterion

	A	B	DSE	T
A	0.882			
B	0.868	0.899		
DSE	0.665	0.701	0.856	
T	0.711	0.744	0.641	0.865

Collinearity Assessment

Variance Inflation Factor (VIF) values ranged between 2.235 and 4.137, below

the threshold of 5, indicating no multicollinearity issues.

Table 5: Collinearity statistics (VIF)

Outer model – List

	VIF
A1	3.348
A2	3.142
A3	3.540
A4	3.103
A5	4.038
A6	4.137
B14	2.628
BI1	3.086
BI2	3.913
BI3	3.337
DSE1	2.650
DSE2	2.648
DSE3	3.252
DSE4	2.921



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DSE5	2.235
T1	2.646
T2	3.501
T3	3.310
T4	2.865
T5	2.480

Model Fit Assessment

The saturated model achieved an **SRMR value of 0.051**, below the recommended

Table 6: Model fit

benchmark of 0.08, confirming good fit. NFI values of 0.860 and 0.848 further supported model accuracy.

Fit summary

	Saturated model	Estimated model
SRMR	0.051	0.106
d_ULS	0.547	2.338
d_G	0.481	0.570
Chi-square	512.029	553.654
I	0.860	0.848

Coefficient of Determination (R²)

The model showed strong predictive capacity, with R² values of 0.766 for

Table 7: Overview

Attitude, 0.491 for Behavioral Intention, and 0.411 for Trust.

	R-square	R-square adjusted
A	0.766	0.762
B	0.491	0.489
T	0.411	0.408

Path Analysis

Digital Self-Efficacy significantly influenced Attitude ($\beta = 0.583, t = 12.838, p < 0.001$). Mediation analysis revealed that Attitude strongly mediated the

relationship between DSE and Behavioral Intention ($\beta = 0.503, p < 0.001$), while Trust had a modest but significant mediating effect ($\beta = 0.080, p = 0.049$).

Table 8:

	Original sample (O)	Sample mean (M)	Standard deviation (STDEV)	T statistics (O/STDEV)	P values
DSE -> A	0.583	0.580	0.045	12.838	0.000
DSE -> B -> A	0.503	0.499	0.054	9.392	0.000
DSE -> T -> A	0.080	0.081	0.041	1.971	0.049

Discussion:

The findings confirm and supports the proposed framework, confirming that Digital Self-Efficacy and Trust significantly influence Attitude, which in turn mediates their effect on Behavioral Intention. These results align with Rosli et al. (2023), Islam et al. (2024), and Herzallah et al. (2025), who highlighted the role of self-efficacy and trust in mobile payment adoption.

Trust emphasized the importance of institutional reliability in Pakistan’s fintech ecosystem and surfaced as a critical determinant, consistent with Gómez-Hurtado et al. (2025) and Malik et al. (2025). Attitude was confirmed as a strong mediator, supporting Belmonte et al. (2024) and Jingnan et al. (2023).

Overall, the study reinforces TAM and UTAUT frameworks, demonstrating that psychological confidence (self-efficacy) and institutional trust are essential for Gen Z adoption of e-wallets. For practitioners, this implies that fintech providers must enhance security, usability, and digital literacy programs to foster positive attitudes and increase adoption rates.

Conclusion

This study examined factors influencing digital wallet adoption among Generation Z in Pakistan, focusing on digital self-efficacy (DSE) and trust, with attitude as a mediating variable. Results from PLS-SEM show that both user confidence and institutional trust highly influence attitudes toward e-wallet use, which in turn strongly influence behavioral intention. The findings support TAM and



UTAUT, showing the importance of psychological and trust-based factors in technology adoption.

DSE was found to have a strong positive effect on both attitude ($\beta = 0.583$, $p < 0.001$) and trust ($\beta = 0.545$, $p < 0.001$). Mediation analysis confirmed that attitude plays a significant mediating role between DSE, trust, and behavioral intention. This suggests that higher digital confidence and trust in system security increase positive attitudes and adoption intentions.

Overall, the study concludes that DSE, trust, and attitude are key determinants of e-wallet adoption among Generation Z in Pakistan, offering useful implications for improving fintech adoption strategies.

Recommendations and Policy Implications

Based on the findings, several key recommendations are proposed for policymakers, financial institutions, and fintech developers. First, there is a need to enhance digital literacy and confidence among users by introducing digital skills programs in universities and communities, with a focus on cybersecurity awareness, mobile payment usage, and safe online financial practices. Integrating financial and digital literacy into higher education curricula can further strengthen Generation Z's capability and willingness to adopt emerging financial technologies.

Second, strengthening institutional trust and security frameworks is essential. Policymakers, particularly the State Bank

of Pakistan (SBP), should establish clear data protection regulations, consumer protection policies, and effective mechanisms for fraud prevention and dispute resolution. Fintech companies should also adopt advanced security measures such as encryption, multi-factor authentication, and real-time fraud monitoring to enhance user trust and reduce perceived risk.

Third, promoting awareness and positive attitudes toward e-wallets is important for wider adoption. Fintech companies should design emotionally appealing and user-friendly marketing strategies that emphasize ease of use, reliability, and security. In addition, public-private partnerships can help address misconceptions through awareness campaigns and digital outreach initiatives.

Furthermore, incentivizing early adoption through cashback offers, referral programs, and loyalty rewards can improve perceived value and encourage usage. Accessibility and inclusivity should also be prioritized by developing simple, multilingual, and user-friendly interfaces, along with ensuring interoperability across financial platforms and integration with national payment systems such as PRISM.

Practical Implications

The study offers several practical implications for stakeholders. Fintech companies should focus on improving user support systems, interface design, and secure payment gateways, as these



factors are critical in building digital confidence and trust. Improved customer service responsiveness can further enhance user satisfaction and adoption. Collaboration between fintech firms and banks can help create hybrid models that strengthen institutional credibility and increase trust in digital wallet services. Governments should prioritize regulatory frameworks for data privacy, cybersecurity, and innovation-friendly policies such as regulatory sandboxes to balance protection and technological growth. Universities can also contribute by integrating digital literacy and financial inclusion topics into business and IT curricula, preparing students for the evolving digital economy. Collectively, these efforts can support the growth of Pakistan's fintech sector, improve financial inclusion, and contribute to national digital transformation goals.

Limitations of the Study

This study has certain limitations. The sample was limited to Generation Z university students from Rawalpindi and Islamabad, which restricts the generalizability of the findings to other regions or age groups. Additionally, the cross-sectional nature of the data does not capture changes in user behavior, trust, and self-efficacy over time. The use of self-reported questionnaires may also introduce response bias, as participants may overestimate or underestimate their digital skills and trust levels. Moreover, important variables such as perceived

risk, social influence, resistance to innovation, and institutional support were not included, which could further enhance future models if incorporated.

Future Research Directions

Future research should consider longitudinal or panel studies to better understand how attitudes, trust, and behavioral intentions evolve over time. Expanding the scope to include different demographic groups, such as older users and rural populations, would provide deeper insights into adoption differences across segments. Future models may also incorporate additional variables such as perceived risk, social influence, policy awareness, and user experience design as mediators or moderators to improve explanatory power. Comparative studies across developing countries could help identify cultural and institutional differences affecting digital wallet adoption in the Global South. Finally, qualitative approaches such as interviews and focus groups are recommended to explore deeper psychological and socio-cultural factors influencing trust and digital self-efficacy, which may not be fully captured through quantitative methods.

REFERENCES

- Abdullah, and Mohammed Naved Khan. 2021. "Determining Mobile Payment Adoption: A Systematic Literature Search and Bibliometric Analysis." *Cogent Business and Management* 8(1). doi:10.1080/23311975.2021.1893245.
- Adiani, Widyoretno, Atik Aprianingsih,



ISSN Online: 3006-2047

ISSN Print: 3006-2039



Volume. 5, Issue No. 2 (2026)

- Ira Fachira, and Teresia Debby. 2024. "Social Influence , Financial Benefit , and e-Wallet Multi-Brand Loyalty : The Mediating Impact of Commitment Social Influence , Financial Benefit , and e-Wallet Multi-Brand Loyalty : The Mediating Impact of Commitment." *Cogent Business & Management* 11(1). doi:10.1080/23311975.2023.2290228.
- Adiani, Widyoretno, Atik Apriansih, Ira Fachira, Teresia Debby, and Andhiny Puspa Maharatie. 2023. "Social Influence, Financial Benefit, and e-Wallet Multi-Brand Loyalty: The Mediating Impact of Commitment." *Cogent Business and Management* 11(1). doi:10.1080/23311975.2023.2290228.
- Ag, Irma, and Anetta Alt. 2024. "Do Digital Natives Use Mobile Payment Differently than Digital Immigrants ? A Comparative Study between Generation X and Z." 1463-90.
- Ajina, Ahmed S., Jamal M. M. Joudeh, Nafez N. Ali, Ahmad M. Zamil, and N. Tareq. 2023. "The Effect of Mobile-Wallet Service Dimensions on Customer Satisfaction and Loyalty : An Empirical Study The Effect of Mobile-Wallet Service Dimensions on Customer Satisfaction and Loyalty : An Empirical Study." *Cogent Business & Management* 10(2). doi:10.1080/23311975.2023.2229544.
- Aljaradat, Aya, and Sandeep K. Shukla. 2026. "Trust and Cybersecurity in Digital Payment Adoption : Socioeconomic Insights from India." (February). doi:10.1108/JBSED-04-2025-0119.
- Andhini, Nadinka Ayu. 2025. "Tapping into the Future: What Drives Generation Z to Adopt Digital Payments ?" 1(2):148-69.
- Dendrinis, Konstantinos, and George Spais. 2024. "An Investigation of Selected UTAUT Constructs and Consumption Values of Gen Z and Gen X for Mobile Banking Services and Behavioral Intentions to Facilitate the Adoption of Mobile Apps." *Journal of Marketing Analytics* 12(3):492-522. doi:10.1057/s41270-023-00271-1.
- Do, Anh Duc, Dieu Linh Ha, Anh Tue Nguyen, Minh Duc Le, and Minh Hoang. 2025. "Digital Transformation of Online Payments : Interface Design and Customer Service Roles in E- Wallet Adoption in Vietnam." *Cogent Business & Management* 12(1). doi:10.1080/23311975.2025.2557966.
- Hossain, A., Tasnim, A. F., Akhter, F., Semi, M. M. A., Khan, R., Rahman, R., ... & Sabeena, A. A. (2025). Transforming Healthcare Decisions in the US Through Machine Learning. *Artificial Intelligence*, 1(2)
- Jingnan, Ju, Poh-chuin Teo, Theresa C. F. Ho, Chen Hooi Ling, Ju Jingnan, Poh-chuin Teo, Theresa C. F. Ho, Chen Hooi, and Ling The. 2023. "The Behavioral Intention of Young Malaysians towards Cashless Society :



ISSN Online: 3006-2047

ISSN Print: 3006-2039



Volume. 5, Issue No. 2 (2026)

- Value-Based Adoption Model The Behavioral Intention of Young Malaysians towards Cashless Society: Value-Based Adoption Model." *Cogent Business & Management* 10(2). doi:10.1080/23311975.2023.2244756.
- John, Zachariah, A. Belmonte, Yogi Tri, Maela Madel, L. Cahigas, Reny Nadlifatin, Ma Janice, and J. Gumasing. 2024. "Acta Psychologica Factors Influencing the Intention to Use e -Wallet among Generation Z and Millennials in the Philippines: An Extended Technology Acceptance Model (TAM) Approach." *Acta Psychologica* 250(October):104526. doi:10.1016/j.actpsy.2024.104526.
- Kelly, Afful Ekow. 2024. "Telematics and Informatics Reports The Sustainability and Contribution of Generation Z Influenced by Hedonic and Utilitarian Values to Use Mobile Money Services for Fee Payment." *Telematics and Informatics Reports* 14(May):100145. doi:10.1016/j.teler.2024.100145.
- Khan, Mohammed Naved. 2021. "Cogent Business & Management Determining Mobile Payment Adoption: A Systematic Literature Search and Bibliometric Analysis" *MARKETING | REVIEW ARTICLE Determining Mobile Payment Adoption: A Systematic Literature Search and Bibliometric Analysis.* *Cogent Business & Management* 8(1). doi:10.1080/23311975.2021.1893245.
- Kiran, K. Padma, and Naga Sailaja Vedala. n.d. "Exploring Behavioral Intentions of Consumers towards Different Digital Payment Services through the Interplay of Perceived Risks and Adoption Factors." (2025):1-13.
- Kraiwanit, Tanpat, Pongsakorn Limna, and Peerapat Wattanasin. 2024. "Journal of Open Innovation: Technology , Market , and Complexity Digital Wallet Dynamics : Perspectives on Potential Worldcoin Adoption Factors in a Developing Country ' s FinTech Sector." *Journal of Open Innovation: Technology, Market, and Complexity* 10(2):100287. doi:10.1016/j.joitmc.2024.100287.
- Liana, Pamela, Jan Erik Jaensson, and Goodluck Mmari. 2023. "Service Quality Dimensions as Predictors of Customer Loyalty in Mobile Payment Services : Moderating Effect of Gender." *Future Business Journal* 9(1):1-15. doi:10.1186/s43093-023-00277-2.
- Linh, Truong Tuan, Nguyen Thi Thanh Huyen, Do Nang Thang, and Ngo Mai Phuong. 2024. "How Neighbor Influence Negatively Affects Digital Payment Adoption in Vietnam." *Cogent Business and Management* 11(1). doi:10.1080/23311975.2024.2431654.
- Ly, Huynh Thi Ngoc, Nguyen Vinh Khuong, and Tran Hung Son. 2022. "Determinants Affect Mobile Wallet Continuous Usage in Covid 19 Pandemic: Evidence From Vietnam." *Cogent Business and Management* 9(1). doi:10.1080/23311975.2022.2041792.



ISSN Online: 3006-2047

ISSN Print: 3006-2039



Volume. 5, Issue No. 2 (2026)

Masood, Ashma Binte, and Farwa Muqadas. 2025. "Journal of Emerging Business Innovation Management."

Mehta, Ahmed Muneeb, and Tanti Handriana. 2024. "ARTICLE NO 01." (01).

Muchtar, Evan Hamzah, Budi Trianto, Irwan Maulana, Muhammad Nurul, Ruslan Husen Marasabessy, Wahyu Hidayat, and Edy Junaedi. 2024. "Quick Response Code Indonesia Standard (QRIS) E- Payment Adoption: Customers Perspective." *Cogent Business & Management* 11(1). doi:10.1080/23311975.2024.2316044.

Mukong, Alfred Kechia, and Lwanga Elizabeth Nanziri. 2021. "Social Networks and Technology Adoption: Evidence from Mobile Money in Uganda." *Cogent Economics and Finance* 9(1). doi:10.1080/23322039.2021.1913857.

Multi-Brand E-Wallet Loyalty Study. n.d. Notes, Rights, Patricia Standish Library, Release Form, Standish Library, The J. Spencer, Patricia Standish Library, Copyright Law, Standish Library, and Community Collection. n.d. "Understanding Consumer Adoption of Mobile Payments Source: Siena University Contributed by: Unknown; Akana , Taylor Stable URL : <https://Www.Jstor.Org/Stable/Community.41052180>."

Ojo, Adedapo Oluwaseyi, Olawole Fawehinmi, Oluwayomi Toyin Ojo, Chris Arasanmi, and Christine Nya Ling Tan. 2022. "Consumer Usage Intention of Electronic Wallets during the COVID-19 Pandemic in Malaysia." *Cogent Business and Management* 9(1). doi:10.1080/23311975.2022.2056964.

P.S, Raghukumari, and Aarzo Doshi. 2025. "Incentivising Innovation: The Moderating Role of Promotions in Shaping Millennials' Mobile Payments Adoption." *Cogent Business and Management* 12(1). doi:10.1080/23311975.2025.2463575.

Rahayu, Sri, Rida Justin, Mahfuz Ahfas, and Edward Hasibuan. 2025. "THE INFLUENCE OF CONSUMER BEHAVIOR , FINANCIAL LITERACY , AND TRANSACTION SECURITY ON THE USE OF DIGITAL PAYMENT METHOD IN GEN Z." 01(01):2538-46.

Rahman, Mohammad Rifat. 2026. "Digital Financial Services and Gender Dynamics: Users ' Intention in the Era of." (February). doi:10.1108/JIDT-12-2024-0035.

Ramayanti, Rizka, and Nurul Aisyah Rachmawati. 2026. "Factors Influencing Digital Payment Behavior: A Meta-Analysis." (February). doi:10.1108/DTS-05-2025-0110.

Riipa, M. B., Ahmed, F., Rony, M. K. K., Hossain, A., Islam, A., Utsho, M. R., ... & Tasnim, A. F. (2026). The role of artificial intelligence in predicting cardiovascular outcomes: a systematic review and meta-



ISSN Online: 3006-2047

ISSN Print: 3006-2039



Volume. 5, Issue No. 2 (2026)

- analysis. *Biostatistics & Epidemiology*, 10(1), e2670804.
- Rashid, Mohammed, Mushahid Ali Shamsi, Imran Anwar, Imran Saleem, and Ali Thabit Yahya. 2025. "Consumer Intention to Adopt E-Wallets in Rural India: An Investigation by Extending the Technology Acceptance Model." *Cogent Business and Management* 12(1). doi:10.1080/23311975.2024.2428776.
- Rosli, Mohd Shafie, Nor Shela Saleh, Azlah Ali, and Suaibah Abu Bakar. 2023. "Factors Determining the Acceptance of E-Wallet among Gen Z from the Lens of the Extended Technology Acceptance Model." 1-23.
- Sharma, Himanshu, and Antonio Díaz Andrade. 2023. "Digital Financial Services and Human Development: Current Landscape and Research Prospects." *Information Technology for Development* 29(4):582-606. doi:10.1080/02681102.2023.2199189.
- Shunmugasundaram, V., Shanu Srivastava, and Pooja Devi. 2026. "A Study on Understanding QR-Based m-Payment Adoption Intention and Satisfaction among Consumers in India." (February):2635-48. doi:10.1108/EJMS-03-2025-0024.
- Sinha, Gaurav R., Raj Chirag, Mehta Anniina, and Kaittila Katri. 2025. "Factors and Patterns in Mobile Banking and Payment Services Use in the United States." *Journal of Financial Services Marketing* 30(4):1-11. doi:10.1057/s41264-025-00319-6.
- Thanigan, Jayanthi, N. Srinivasa Reddy, Moutusy Maity, Priya Sethuraman, and J. Irudhaya Rajesh. 2025. "An Integrated Framework for Understanding Innovative Digital Payment Adoption and Continued Usage by Small Offline Retailers." *Cogent Economics and Finance* 13(1). doi:10.1080/23322039.2025.2462442.
- To, Anh Tho, and Thi Hong Minh Trinh. 2021. "Understanding Behavioral Intention to Use Mobile Wallets in Vietnam: Extending the Tam Model with Trust and Enjoyment." *Cogent Business and Management* 8(1). doi:10.1080/23311975.2021.1891661.
- Wang, Ruoyuan, and Mike Peters. 2025. "Consumer Intention to Switch from Cash to Mobile Payment in Restaurants During and After Pandemic Consumer Intention to Switch from Cash to Mobile." *Journal of Quality Assurance in Hospitality & Tourism* 26(1):22-55. doi:10.1080/1528008X.2023.2201696.
- Yong, Yi, Lee Chin, Lay Gan, and Tze Wei. 2023. "Do E - Wallets Trigger Impulse Purchases? An Analysis of Malaysian Gen - Y and Gen - Z Consumers." *Journal of Marketing Analytics* 11(2):244-61. doi:10.1057/s41270-022-00164-9.
- Yue, Lin. 2026. "Telematics and Informatics A Systematic Review of Research on Digital Mobile Payment Apps." 105(November 2025).