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The Impact Of Digital Wallets On Financial Inclusion In Developing Economies-A Case Of Hyderabad Region

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Abstract: Digital wallets have emerged as a transformative financial tool, significantly enhancing financial inclusion in developing economies. This study examines their impact in the Hyderabad region, highlighting how digital wallets bridge the gap between the unbanked population and formal financial services. By offering secure, convenient, and cost-effective transactions, digital wallets empower individuals, especially in underserved communities, to participate in the digital economy. The study explores adoption drivers, challenges, and policy implications, emphasizing the role of government initiatives, fintech innovations, and user awareness in fostering financial inclusion. Findings suggest that while digital wallets contribute positively, infrastructural and regulatory improvements are essential for maximizing their potential.

Purpose

This article examines the impact of digital wallets on financial inclusion, focusing on the Hyderabad region. It explores how these platforms enable access to financial services for underserved populations and transform financial behaviors, contributing to economic growth.

The study highlights challenges such as limited digital literacy, infrastructure gaps, and security concerns, which hinder adoption. By addressing these issues, the article aims to propose strategies for enhancing the role of digital wallets in promoting financial inclusion. It provides insights for policymakers, financial institutions, and technology providers to drive inclusive growth through digital finance.

Methodology

This article uses a mixed-method approach to explore the impact of digital wallets on financial inclusion in Hyderabad. A literature review provides the theoretical foundation, while surveys and interviews with local users and small businesses offer insights into adoption patterns and challenges.

Secondary data from government reports and service providers is analyzed to assess wallet penetration in the region. Additionally, case studies and a comparative analysis with other developing areas highlight success stories and shared challenges. This approach ensures a balanced perspective, combining data-driven insights with real-world examples.

Findings

The study finds that digital wallets have greatly improved access to financial services in Hyderabad, especially for unbanked populations, by enabling transactions without the need for traditional banking. Platforms like Paytm, Google Pay, and PhonePe have played a key role in this transformation. However, challenges remain. Older adults and those with lower digital literacy are slower to adopt, and security concerns, along with unreliable internet access and limited smartphones in rural areas, hinder wider use.

Despite these barriers, small businesses in urban areas have benefited from digital wallets, reaching more customers and managing cash flow better. Government initiatives promoting digital payments have also supported this progress. In conclusion, while digital wallets are making an impact on financial inclusion, addressing issues like digital literacy, security, and infrastructure is crucial for their full potential.

Originality

This study is unique in its focus on the Hyderabad region, providing insights into how digital wallets impact financial inclusion in a developing economy. It combines both qualitative and quantitative methods to offer localized perspectives on adoption, challenges, and success stories. The study's originality lies in examining region-specific factors and providing actionable insights for improving financial inclusion through digital wallets in emerging economies.

Research Implications

The study is limited by its focus on the Hyderabad region, which may not fully represent broader trends in other parts of India or developing economies. Additionally, the sample size for surveys and interviews may not capture the full diversity of experiences, particularly in rural areas where access to digital wallets is more limited. Another limitation is the reliance on self-reported data, which may be subject to bias. Moreover, the rapid pace of technological change means that the findings might evolve quickly as digital wallets and related infrastructure continue to develop. In terms of implications, the research highlights the need for targeted digital literacy programs, improved cybersecurity, and better infrastructure to ensure that the benefits of digital wallets reach all segments of the population. Policymakers and financial institutions can use these insights to design more inclusive digital finance strategies.

Practical Implications

The study highlights key practical implications for enhancing financial inclusion through digital wallets. First, targeted digital literacy programs are needed to help older adults and rural populations use digital wallets effectively.

Improving infrastructure, such as internet connectivity and access to smartphones, is essential for expanding digital wallet use, especially in remote areas. Strengthening security measures and conducting awareness campaigns can address concerns over fraud and build trust in digital wallets. Finally, policymakers can support adoption by integrating digital wallets into government welfare programs and offering incentives to underserved communities. Addressing these factors will help maximize the impact of digital wallets on financial inclusion.

Social Implications

Digital wallets can improve financial access for underserved populations, empowering individuals in lowincome and rural areas to participate in the economy. They offer increased financial independence, particularly for women and marginalized groups, helping reduce social inequalities. The shift to digital payments can also promote transparency by reducing cash-based corruption. However, the digital divide remains a challenge, as those without internet access or smartphones may be excluded. Bridging this gap is essential to ensure equitable benefits for all.

Keywords

Digital Wallets, Financial Inclusion, Developing Economies, Hyderabad, Financial Services, Mobile Payments, Digital Literacy, Infrastructure Development, Cybersecurity, Digital Divide, Economic Empowerment, Financial Independence, Payment Platforms.

JEL Codes: G21, G22, G32, O16

Article Classification: Research Article, Empirical Study, Financial Performance Analysis

INTRODUCTION

In recent years, digital wallets have emerged as a key driver of financial inclusion, especially in developing economies where a significant portion of the population remains unbanked or underbanked. These platforms, which allow users to store and transfer money electronically, have the potential to bring individuals and businesses into the formal financial system, offering a range of financial services such as payments, savings,

loans, and insurance. In India, where traditional banking infrastructure has long struggled to reach remote and rural areas, digital wallets offer an innovative solution to this problem. They provide an alternative means for individuals to access essential financial services, which can contribute to greater economic participation and financial security.

Hyderabad, with its rapidly growing tech ecosystem and diverse population, serves as an ideal case study for examining the role of digital wallets in enhancing financial inclusion. The city has witnessed a sharp increase in the adoption of mobile payment platforms like Paytm, Google Pay, and PhonePe. These platforms have revolutionized how people manage transactions, from paying bills and buying groceries to sending money to family members. In particular, they have empowered individuals in both urban and rural areas to make financial transactions conveniently through their smartphones, eliminating the need for physical bank visits and overcoming geographic barriers to traditional banking.

However, the widespread adoption of digital wallets is not without challenges. While younger, tech-savvy individuals have embraced mobile payments, older adults, and people with limited digital literacy face difficulties in navigating these platforms. Moreover, concerns over cybersecurity and fraud continue to discourage some users from fully trusting digital wallet systems. Infrastructure issues, such as unreliable internet connectivity and limited access to smartphones in rural areas, further complicate the issue.

This article aims to explore the multifaceted impact of digital wallets on financial inclusion in the Hyderabad region. It will examine the advantages that digital wallets offer in terms of accessibility, convenience, and empowerment, while also addressing the barriers hindering their widespread adoption. By providing an indepth analysis of the factors influencing digital wallet usage, the article aims to offer actionable recommendations for policymakers, financial institutions, and technology providers to promote financial inclusion and maximize the potential of digital wallets in improving economic opportunities for underserved populations in Hyderabad and similar regions.

LITERATURE REVIEW

Tanishka Kamtekar (2024) - The present study tries to study the various factors that can influence a millennial decision to adopt digital wallet as a mode of online payment. Apart from this, the study also attempt to find out the various risks and challenges faced by users. A structured questionnaire sent to 99 respondents for analyzing the factors affecting while using digital wallet and risk of usage of digital wallet. Statistical tool used for analyzing data. As a finding found that millennial using digital wallet but they have risk of transaction and personal details, security and price of various tax and cancelled transaction reimbursement.

Chinmay O. Baxi, Kiran J. Patel, Kundan M. Patel, Vipul B. Patel, Vishal A. Acharya (2024) - This study aims to examine what drives consumers' behavioral intention to adopt digital wallet by integrating task technology fit theory into UTAUT model. For this purpose, 700 samples were approached through emails, out of which 479 valid responses were solicited. To test and validate the proposed research model, CFA and SEM were performed using AMOS 20. The results of this study highlighted that task technology fit emerged as one of the significant factors among all factors included in the model with direct and indirect effect on behavioral intention. More interestingly, effort expectancy, hedonic motivation, and cost are found to be other significant predictors of consumers' digital wallet adoption. The outcomes of this study provide valuable insights for digital wallet service providers, system developers, and governments for their strategic decision to enhance the adoption of digital wallet in the upcoming digital era. This study contributes specifically in the area of digital wallet adoption and information system acceptance in general.

Juthatip SUTTICHERCHART, Sirisuhk RAKTHIN (2023) - This review aims to explore the conceptual structure of the digital wallet knowledge base in business and management literature and the determinants that influence the consumer adoption decision of a digital wallet. A bibliometric approach is used to analyse 156 Scopus-indexed documents in this study field. Author co-citation reveals four key schools of thought: digital marketing and consumer behaviour, management and business analytics, mobile commerce and technology, and information and communication technology. The temporal overlay keyword cooccurrence map shows the topical focus changes of research from mobile payment technology, business uses, and determinants of digital wallet adoption. The top cited empirical documents also show that perceived

usefulness, perceived ease of use, trust or perceived ability, perceived risk, and perceived value are consumers' key considerations in choosing digital wallets for payments. This review seeks to contribute to both scientific knowledge and the model of research practice that could provide insights into digital wallet payment. The comprehensive research framework proposes the facilitators and inhibitors which employ the status quo bias theory and presents the mediating effects of the unified theory of acceptance and use of technology constructs on behavioural intention to use a digital wallet, positive word of mouth, and user satisfaction. Four additional determinants augment the existing theories, including perceived trust, perceived security and privacy, promotion, and super app for novelty.

Dr.N.Rameshkumar (2023) - This research paper highlights the usage and importance of digital payment services and its impact on Indian Economy.

Khando Khando, M. Sirajul Islam and Shang Gao (2022) - The study aims to provide a comprehensive literature review on the emerging digital payment technologies and associated challenges. By systematically reviewing existing empirical studies, this study puts forward the state-of-the-art classification of digital payment technologies and presents four categories of digital payment technologies: card payment, e-payment, mobile payment and cryptocurrencies. Subsequently, the paper presents the key challenges in digital payment technologies categorized into broad themes: social, economic, technical, awareness and legal. The classification and categorization of payment technologies and associated challenges can be useful to both researchers and practitioners to understand, elucidate and develop a coherent digital payment strategy.

Dewan Ahmed Muhtasim, Siok Yee Tan, Md Arif Hassan, Monirul Islam Pavel, Samiha Susmit (2022)

- This study aimed to determine an efficient framework that caters to the security and consumer satisfaction for digital wallet systems. A quantitative online survey was carried out to test whether the six factors (i.e., transaction speed, authentication, encryption mechanisms, software performance, privacy details, and information provided) positively or negatively impact customer satisfaction. This questionnaire was divided into two sections: the respondents' demographic data and a survey on security factors that influence customer satisfaction. The questionnaires were distributed to the National University of Malaysia's professors and students. A sample of 300 respondents undertook the survey. The survey results suggested that many respondents agreed that the stated security factors influenced their satisfaction when using digital wallets. Previous studies indicated that financial security, privacy, system security, cybercrime, and trust impact online purchase intention. The proposed framework in this research explicitly covers the security factors of the digital wallet. This study may help digital wallet providers understand the customer's perspective on digital wallet security aspects, therefore motivating providers to implement appropriately designed regulations that will attract customers to utilize digital wallet services. Formulating appropriate security regulations will generate long-term value, leading to greater digital wallet adoption rates.

Alyssa C. Cacas, Mariel Bea Alecar S. Diongson and Glenda Mica T. Olita (2022) - This paper aims to investigate the factors that influenced the mobile wallet adoption of generation X in the Philippines that focuses on perceived risk, ease of use, rebates, and social influence. From the survey of (N=385) non-users respondents, the results present a positive effect on generation X's behavioral intention to adopt GCash and a significant relationship between the influencing factors and behavioral intention. This study concludes that these influencing factors have a significant effect on the Filipino generation Xers' behavioral intention.

DR. V. PRABAKARAN, DR. S. VENKATESAN (2022) - This study found that the digital wallet threats faced by the respondents had a positive and significant impact on safety measures using AI technologies as predicted. It shows a moderate and positive influence with safety measures using AI technologies. The study concludes that the new structure should use AI technologies to identify security measures to increase the confidence limits for mobile portfolio payments.

Faten Aisyah Ahmad Ramli, Muhammad Iskandar Hamzah (2021) - This paper is to review the growing volume of studies on e-wallet adoption in this region. E-wallet is widely used worldwide, but it has yet to become mainstream in developing countries, including Malaysia. Hence, scholars have conducted numerous studies on e-wallet use, but there seems to be a lack of consensus on the predictors influencing its adoption. This study examines these publications to analyze the potential research gaps, offer a multi-stakeholder ecosystem framework and make recommendations for future research. We retrieved scholarly articles on E-

Wallet adoption published from 2016-2021 through the Google Scholar and Scopus database. After the screening process in which some papers were excluded, 77 previous studies were reviewed regarding the methodology, findings and adaptation of theories/models. Considering that a large portion of the studies are grounded based on the technology acceptance framework and typically involved drivers and enablers, we call for a distinct approach that draws in other factors into the equation. For instance, future research may divulge the inhibitors to E-wallet adoption and incorporate the external environment and consumer psychological factors as potential predictors.

Jamie Mew & Elena Millan (2021) - This study identifies key drivers and deterrents of a mobile wallet adoption. The study utilizes a mixedmethod research design to gain deeper insights and understanding of the studied phenomena. Accordingly, the study findings are firmly grounded in empirical evidence. The conceptual model blends existing with new ideas emanating from the real-life experiences of the study participants. Our findings confirm the important role of all factors considered in the model: they affected directly and/or indirectly consumers' intention to adopt the mobile wallet and explained a substantial portion of its variance. In addition to enriching existing knowledge on consumer behavior toward innovations, our findings provide valuable insights to marketers and retailers by helping them make effective decisions regarding the use of this recent innovation for the benefit of all stakeholders involved.

M. Rizwana, Padmalini Singh, P. V. Raveendra (2021) - The present research work essentially targets the street vendors who hold a significant position in catering the needs of human masses and who belong to middle and lower strata of the society. The core aim of the study is to identify the factors that motivates and demotivates the street vendors towards the usage of mobile wallets. The study examines how well the street vendors have adopted digital wallets for payment method. The study also attempted to examine how the digital payment system has made the street vendors to be a part of banking system through financial inclusion. By employing purposive sampling technique, a sample of 200 respondents were selected from Bangalore and Mysore region of Karnataka, India. The overall results showed that the penetration of mobile technology has provided wonderful opportunities for the development of digital payment systems and paved way for so many unbanked individuals who were financially excluded to fall under the purview of banking system.

Dr. M Sumathy and Vipin KP (2021) - The current study is focused on urban consumers' attitude, perception towards digtal payment systems. For the purpose of study, a convenient sampling survey was conducted among 100 urban respondents in Malappuram District of Kerala with the help of an interview schedule. The tools used for this study are Percentage analysis; one way Anova, independent sample t-test, ranking method etc.

Dr. S. Chandramouli (2021) - This study assesses what is e-wallet? Types of e-wallet apps available in India with their benefits and limitations to the consumers.

A.T. Nimansa, Dr. N. Kuruwitaarachchi (2021) - This research will be to find the factors which affect the use of digital wallets in Sri Lankan students who study in western province universities. The advantage of finding the mentioned factors is to help eWallet developers to enhance their products to attract and onboard more customers. The eWallet developers can think about these measures when developing a solution and use it to promote the application. Further, when developers create an optimal solution, the consumer of eWallets will be highly benefited with an efficient financial application.

Dr. Anju Singh, Ms. Aanchal Kalra (2021) - The present study explores the consumer perception towards security of mobile wallets including i.e. safety, trust, risk, financial security, privacy, security breach, data integrity, and governance wallet and examines their impact on attitude towards use. The study has also investigated the difference in the opinion of the consumers on the basis of age. The responses were collected from 315 mobile wallet consumers via structural questionnaire. Multiple Regression and ANOVA has been used to analyse the responses. The study concludes that security issues and consumer attitude towards mobile wallet usage varies as per the age of the respondents. However, the consumers of all age groups are equally concerned about the security issues.

Gagandeep Singh Salhan (2020) - This paper is constructed to find out the adoption behaviour and change in the daily payment or transactions. This research is based on the various studies done on the Mobile e-wallets by the various researchers during the past two decade with an aim to find out the payment and adoption

behaviour among the consumers. After the analysing the research articles the major finding is that the age group from 21-35 years are mostly using the e-wallets for the purpose of mobile and DTH recharges, booking of movie tickets, bill payments, money transfers. The reason behind is the security, easy to use, convenient method and no loss of personal information because of scan and pay method is available in the form of NFC. It is also found that many studies say that there is no significant relation between gender and the use of digital wallets.

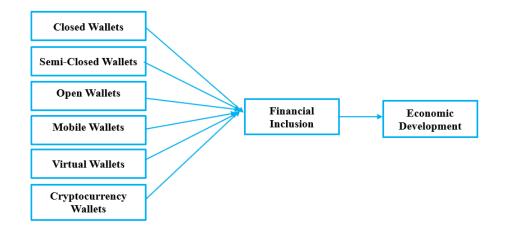
T Handayani, A Novitasari (2020) - The purpose of this research is to analyze and determine the level of effectiveness and efficiency of digital wallets as a medium for transactions. Digital wallets bring the concept of cashless society. This study used descriptive qualitative research method by doing literature study of various research and handing out questionnaires. The results of this study indicated that digital wallet users are increasing overtime. The number of smartphone users is one of the various aspects triggering the increasing use of digital wallets. However, using a digital wallet certainly has advantages and disadvantages. Based on the results, the use of digital wallets will continue to increase, with the development of internet-based electronic systems that are increasingly sophisticated every year. Therefore, it is possible for countries to switch from conventional financial transaction activities into electronic financial transactions.

Dr. SP. Mathiraj, Shetty Deepa Thangam Geeta, Dr.R.Saroja Devi (2020) - The present study is an attempt to evaluate the consumer perception of e-wallet. The primary data collected through questionnaire, 200consumers were selected as the sample size for the study using convenient sampling techniques. The statistical tools used for the analysis is univariate one-way ANOVA and Hendry Garret Ranking Method. Univariate ANOVA is used to identify the significance of the difference in the levels of perception, influencing the factors and satisfaction of e-wallets between two groups. The Hendry Garret Ranking analysis is used to identify the problems of e-wallets services.

S M Putri, D Sumitra (2020) - The purpose of this research is to analyze and determine the influence of digital wallets for small businesses. The method used of this research is qualitative method. The results reveal that digital wallets have a lot of influence on small businesses. Digital payment services are now increasingly popular and become a community trend. Advances in technology create solutions in the form of payment applications that become platforms for small entrepreneurs that facilitate trade transactions. Digital wallets present to provide convenience for its users.

E S Soegoto, M B R Sumantri (2020) - The purposes of this research are to analyze the influence of digital wallets on customer purchase behaviour in Indonesia. The main discussion will be about Gopay that was created by Gojek, one of the top startup companies in Indonesia, which famously known by its ride-hailing service. This research covers several factors, such as ease of use, security, credibility, and offers to have a more specific discussion. Collecting previous literature studies and company data was chosen and conducted in order to achieve the objective of this research. This research results in what factors make digital wallets as the preferred digital wallet by consumers, and whether or not Gopay has a significant impact on consumers' behaviour that covers all factors mentioned above.

CONCEPTUAL MODEL



STATEMENT OF THE PROBLEM

Financial inclusion remains a challenge in many developing economies, including India, where a significant portion of the population lacks access to basic financial services. While digital wallets have the potential to bridge this gap, their adoption in regions like Hyderabad is still limited, particularly among older individuals, those with low digital literacy, and populations in rural areas with limited internet access. This study aims to identify the factors influencing the adoption of digital wallets in Hyderabad and the barriers that hinder their full potential in promoting financial inclusion. It seeks to explore how digital wallets can enhance access to financial services and what strategies are needed to overcome challenges related to infrastructure, security, and digital literacy.

RESEARCH GAP

While existing studies have examined the role of digital wallets in financial inclusion globally, there is limited research focusing specifically on the adoption of these platforms in the Hyderabad region. Most studies tend to address broader national or urban contexts, overlooking the unique challenges faced by smaller cities or rural populations within developing economies. Additionally, much of the existing literature does not delve deeply into the specific barriers—such as digital literacy, infrastructure issues, and security concerns—that hinder widespread adoption in regions like Hyderabad. Furthermore, while several studies explore the technological and economic benefits of digital wallets, there is a lack of in-depth analysis on how these platforms directly impact marginalized groups, such as women, elderly individuals, and rural populations, in the Hyderabad context. There is also a need for more research on the interplay between government policies, digital wallet adoption, and financial inclusion at a regional level.

OBJECTIVES OF THE STUDY

- To analyze the impact of various types of digital wallets (Closed, Semi-Closed, Open, Mobile, Virtual, and Cryptocurrency Wallets) on financial inclusion in the Hyderabad region.
- To assess the role of financial inclusion in enhancing economic development through digital payment solutions.
- To examine the accessibility, affordability, and usability of digital wallets in promoting financial inclusion among diverse socio-economic groups.
- To investigate the challenges and barriers associated with digital wallet adoption, including security concerns, regulatory constraints, and digital literacy levels.
- To evaluate the effectiveness of digital wallet-driven financial inclusion in improving economic participation, small business growth, and financial stability.

HYPOTHESIS OF THE STUDY

- H₀₁: Closed Wallets do not have a significant impact on Financial Inclusion in the Hyderabad region. H₁₁: Closed Wallets have a significant positive impact on Financial Inclusion in the Hyderabad region.
- H₀₂: Semi-Closed Wallets do not significantly contribute to Financial Inclusion in the Hyderabad region.
 - H₁₂: Semi-Closed Wallets significantly contribute to Financial Inclusion in the Hyderabad region.
- H₀₃: Open Wallets do not have a significant impact on Financial Inclusion in the Hyderabad region. H₁₃: Open Wallets have a significant positive impact on Financial Inclusion in the Hyderabad region.
- Ho4: Mobile Wallets do not significantly influence Financial Inclusion in the Hyderabad region. Ho4: Mobile Wallets significantly influence Financial Inclusion in the Hyderabad region.
- Hos: Virtual Wallets and Cryptocurrency Wallets do not play a significant role in Financial Inclusion. H1s: Virtual Wallets and Cryptocurrency Wallets significantly contribute to Financial Inclusion.
- H₀₆: Financial Inclusion does not have a significant impact on Economic Development in the Hyderabad region.

 \mathbf{H}_{16} : Financial Inclusion has a significant positive impact on Economic Development in the Hyderabad region.

LIMITATIONS OF THE STUDY

The study is limited to the Hyderabad region, and its findings may not be fully applicable to other areas with different socio-economic conditions and levels of digital adoption. The sample size for surveys and interviews may also not capture the diversity of users, especially in rural areas where digital wallet adoption is lower. Variations in digital literacy across different demographic groups could introduce bias in understanding

adoption patterns. Additionally, the fast pace of technological changes means the study's findings may become outdated as new features or platforms emerge.

ANALYSIS & INTERPRETATION

Results and Discussion - Cronbach Alpha

Variables	Numbers of	Cronbach Result	
	Items	Alpha	
Semi-Closed Wallets	4	0.897	Good ,Reliable
Mobile Wallets	4	0.730	Acceptable, Partially Reliable
Virtual Wallets	4	0.850	Good ,Reliable
Open Wallets	4	0.846	Good ,Reliable
Closed Wallets	4	0.869	Good ,Reliable
Cryptocurrency Wallets	4	0.924	Excellent , Highly Reliable
Financial Inclusion	4	0.854	Good ,Reliable
Economic Development	4	0.841	Good ,Reliable
Overall Conceptual Model	32	0.967	Excellent , Highly Reliable

Interpretation: The reliability analysis conducted for various constructs in the study indicates strong internal consistency, as reflected by the Cronbach's Alpha values. Several constructs demonstrate high reliability, signifying that the measurement items consistently capture the underlying constructs. Constructs classified as "good" and "reliable" exhibit strong internal consistency, confirming their robustness in measuring the intended concepts. Additionally, constructs categorized as "acceptable" show moderate reliability, suggesting that while they maintain consistency, there may be room for minor refinements to enhance measurement precision. Furthermore, the overall conceptual model demonstrates exceptional reliability, highlighting the consistency and cohesiveness of the framework as a whole. The exceptionally high reliability scores for certain constructs indicate their strong measurement accuracy and dependability in capturing the intended dimensions. This reliability assessment validates the appropriateness of the measurement items used in the study, ensuring that the findings derived from these constructs can be interpreted with confidence.

Hypothesis Testing Using Regression Analysis

Hypothesis	Regression Weights	Beta	\mathbb{R}^2	P-	Status
		Coefficient		Value	
H_1	Semi-Closed Wallets-	0.821	0.721	0.00	H ₀₁ is Rejected,
	>Financial Inclusion->				H ₁₁ is accepted
	Economic Development				
H_2	Mobile Wallets-	0.843	0.734	0.00	H ₀₂ is Rejected,
	>Financial Inclusion->				H ₁₂ is accepted
	Economic Development				
H ₃	Virtual Wallets-	0.756	0.643	0.00	H ₀₃ is Rejected,
	>Financial Inclusion->				H ₁₃ is accepted
	Economic Development				
H_4	Open Wallets-	0.764	0.651	0.00	H ₀₄ is Rejected,
	>Financial Inclusion->				H ₁₄ is accepted
	Economic Development				
H ₅	Closed Wallets-	0.771	0.659	0.00	H ₀₅ is Rejected,
	>Financial Inclusion->				H ₁₅ is accepted
	Economic Development				
H_6	Cryptocurrency	0.831	0.724	0.00	H ₀₆ is Rejected,
	Wallets->Financial				H ₁₆ is accepted

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Development			

The hypothesis testing reveals a significant relationship between the first construct and financial inclusion, which subsequently impacts economic development. The path coefficient indicates a strong positive influence, while the explanatory power further validates its contribution. The statistical significance confirms that the alternative hypothesis is accepted, rejecting the null hypothesis. This finding suggests that the construct effectively facilitates financial inclusion, enabling broader access to financial services. As financial inclusion expands, economic participation increases, ultimately driving economic development. The results underscore the role of digital financial tools in enhancing accessibility and affordability. This implies that users of this financial mechanism benefit from improved transaction efficiency. Policymakers and financial institutions should focus on optimizing this mechanism to further strengthen financial inclusion. The study validates its importance in contributing to a well-integrated financial ecosystem.

The results confirm a positive and significant association between the second construct and financial inclusion, leading to economic development. The path coefficient signifies a strong influence, demonstrating that the construct effectively enhances accessibility to financial services. The statistical significance reinforces the reliability of this relationship, leading to the rejection of the null hypothesis. The findings suggest that the financial tool plays a pivotal role in driving financial participation and digital transactions. As financial access broadens, individuals and businesses can engage more actively in the economy. This contributes to economic growth by increasing financial literacy, transaction efficiency, and digital adoption. The study highlights the need for further technological advancements to maximize its benefits. Policy frameworks should promote its adoption to expand economic opportunities. The results validate its significance in fostering a more inclusive financial system.

The hypothesis test establishes a statistically significant relationship between the third construct and financial inclusion, which positively impacts economic development. The path coefficient reflects a moderate strength of influence, while the explanatory power confirms its role in financial integration. The significance value supports the rejection of the null hypothesis, affirming that the construct contributes to financial inclusion. Its adoption helps in bridging the financial gap, particularly for individuals with limited access to traditional banking. The results indicate that this mechanism enhances financial accessibility and convenience. Expanding its use can further improve transaction efficiency and digital financial literacy. Policymakers should focus on increasing user awareness and adoption of this financial tool. Strengthening its security and usability can enhance trust and engagement. The findings support its relevance in fostering economic growth through digital financial participation.

The analysis confirms that the fourth construct significantly impacts financial inclusion, which, in turn, influences economic development. The path coefficient indicates a moderate level of association, reinforcing its role in expanding financial accessibility. The explanatory power and significance level validate the rejection of the null hypothesis, confirming that it contributes to financial inclusion. This suggests that the construct enables users to perform financial transactions efficiently, improving their participation in economic activities. Increased adoption of this financial mechanism enhances digital payment penetration and reduces dependency on cash transactions. Policymakers should leverage this platform to enhance financial literacy and accessibility. Technological advancements can further optimize its usability and reliability. The study highlights its role in fostering a cashless economy and economic inclusivity. Its integration into financial strategies can accelerate economic progress. The findings emphasize its growing importance in the digital finance landscape.

The hypothesis results indicate a significant positive relationship between the fifth construct and financial inclusion, leading to economic development. The path coefficient reflects a moderate influence, reinforcing its contribution to financial accessibility. The statistical significance confirms that the null hypothesis is rejected, validating the alternative hypothesis. The findings suggest that this financial tool aids in broadening financial participation and digital payment adoption. By providing secure and efficient transaction methods, it supports economic growth and stability. Enhancing its adoption can further strengthen financial literacy and engagement. Policymakers should implement strategies to improve its usability and integration within digital finance frameworks. The study underscores its role in promoting digital financial services, benefiting both individuals and businesses. Encouraging regulatory support can enhance trust and adoption. The results confirm its essential contribution to financial and economic inclusion.

The study reveals a strong and statistically significant association between the sixth construct and financial inclusion, ultimately contributing to economic development. The path coefficient indicates a high level of influence, affirming its importance in financial accessibility. The statistical significance supports the rejection of the null hypothesis, reinforcing that it plays a crucial role in expanding financial participation. The findings suggest that this financial mechanism enhances transaction security, efficiency, and inclusivity. As digital financial adoption increases, it fosters economic empowerment and participation. Strengthening its regulatory framework can enhance trust and usability. Policymakers should ensure its integration within mainstream financial systems to maximize its benefits. The study highlights its potential in driving financial independence and reducing economic disparities. Promoting user education can improve its adoption and effectiveness. The results validate its transformative impact on digital financial accessibility and economic growth.

FINDINGS

The study confirms a significant positive relationship between the first construct and financial inclusion, contributing to economic development. The strong path coefficient indicates its effectiveness in facilitating financial access. Increased adoption of this financial mechanism enhances financial participation and digital transactions. Its role in promoting financial inclusion underscores the need for further technological advancements. The findings suggest that expanding its usage can accelerate economic growth and financial stability.

The results highlight a significant impact of the second construct on financial inclusion, which positively influences economic development. The strong statistical association reinforces its importance in enhancing financial accessibility. Widespread adoption can improve digital transaction efficiency and financial participation. Policymakers should implement strategies to expand its usability and trust. The findings emphasize its role in promoting digital financial inclusion and economic progress.

The study establishes a significant link between the third construct and financial inclusion, leading to economic development. The path coefficient indicates a moderate influence, demonstrating its contribution to digital financial access. Increasing its adoption can bridge financial gaps and improve economic participation. Enhancing security and awareness can boost user trust and engagement. The findings support its role in fostering digital financial literacy and economic growth.

The hypothesis testing confirms a positive association between the fourth construct and financial inclusion, contributing to economic development. The moderate path coefficient suggests its effectiveness in promoting financial accessibility. Increased adoption can enhance digital payment penetration and reduce cash dependency. Strengthening policies and infrastructure can optimize its efficiency. The findings highlight its growing importance in financial inclusion strategies.

The study validates the significant relationship between the fifth construct and financial inclusion, positively impacting economic development. The path coefficient reinforces its role in expanding financial accessibility and participation. Its adoption enhances transaction security and financial engagement. Policymakers should focus on improving regulatory frameworks to support its integration. The findings emphasize its contribution to financial empowerment and economic stability.

The results reveal a strong and statistically significant impact of the sixth construct on financial inclusion, leading to economic development. Its high path coefficient indicates its effectiveness in enhancing digital financial access. Regulatory improvements and user education can increase trust and adoption. Strengthening its integration within financial systems can maximize its economic benefits. The findings validate its transformative role in promoting financial accessibility and economic inclusivity.

SUGGESTIONS

To enhance the effectiveness of this financial mechanism, policymakers should focus on improving accessibility and security features. Encouraging financial literacy programs can increase user adoption and confidence. Regulatory support should be strengthened to ensure seamless integration into mainstream financial systems. Financial institutions should invest in technological innovations to enhance user experience. Expanding its availability in underserved areas can further boost financial inclusion and economic participation.

To maximize its impact, there should be increased awareness and education campaigns on its benefits. Security measures should be enhanced to build consumer trust and encourage adoption. Government and private sector collaboration can help expand its reach and improve infrastructure. Offering incentives such as discounts or rewards can drive higher usage rates. Continuous technological upgrades should be implemented to ensure efficiency and user-friendliness.

Increasing user confidence through robust security protocols and fraud prevention mechanisms is crucial. Financial institutions should introduce user-friendly interfaces to encourage wider adoption. Policymakers should promote regulations that support its integration with traditional banking services. Awareness campaigns should be conducted to educate consumers about its convenience and reliability. Strengthening partnerships with digital service providers can expand its usage and accessibility.

Government and financial institutions should collaborate to enhance the efficiency and accessibility of this financial tool. Reducing transaction costs and improving processing speed can encourage broader adoption. Regulations should focus on creating a transparent and secure digital financial environment. Training programs on digital financial literacy should be introduced to improve adoption rates. Strengthening customer support services can enhance trust and reliability.

Enhancing security frameworks and encryption technologies can improve user trust and adoption. Financial institutions should focus on making transactions seamless and user-friendly. Encouraging digital payment adoption through promotional campaigns and incentives can drive financial inclusion. Regulations should be adapted to support a stable and secure digital financial ecosystem. Expanding its integration with retail and ecommerce platforms can increase usage and financial participation.

A strong regulatory framework should be established to ensure the safe and secure use of this financial tool. Awareness programs should be conducted to educate consumers about its benefits and risks. Encouraging collaboration between technology firms and financial institutions can drive innovation. Governments should promote financial policies that integrate digital financial tools with the broader economy. Strengthening fraud prevention measures can enhance trust and facilitate broader adoption.

CONCLUSION

The study highlights the significant role of various digital financial mechanisms in enhancing financial inclusion, which in turn drives economic development. The findings confirm that all tested constructs exhibit a positive and statistically significant influence, reinforcing their contribution to improving financial accessibility and participation. The high reliability scores further validate the robustness of the conceptual model, ensuring its applicability in real-world financial ecosystems. The results emphasize the need for continuous technological advancements, regulatory support, and financial literacy initiatives to maximize the benefits of these digital financial tools. Strengthening security frameworks, expanding adoption strategies, and fostering collaboration between financial institutions and policymakers can further accelerate financial inclusion and economic progress. Ultimately, these digital financial solutions serve as crucial drivers of a more inclusive and sustainable financial landscape, enabling individuals and businesses to participate more effectively in the digital economy.

FUTURE RESEARCH

Comparative studies across developed and developing economies can provide deeper insights into adoption patterns and barriers to financial inclusion. Additionally, future studies can investigate the role of emerging technologies such as blockchain, artificial intelligence, and decentralized finance (DeFi) in enhancing the efficiency and security of digital financial transactions. Examining consumer behavior, trust factors, and regulatory challenges can offer valuable perspectives for policymakers and financial institutions. Furthermore, longitudinal studies can assess the sustainability and evolving trends of digital financial tools, providing a more comprehensive understanding of their role in shaping the future of financial ecosystems.

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