



A study of role of trust in blockchain technology on influence of decentralized finance application on financial springiness

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Abstract

Financial resilience is influenced by Decentralized finance (DeFi) adoption only if individuals possess financial literacy and have limited risk perception, while the intermediary of trust in blockchain technology also influences DeFi adoption. Through quantitative research, the study investigates the positive role that DeFi adoption plays in improving financial resilience via superior liquidity management, asset diversification, and enhanced absorption of adverse economic shocks. It demonstrates the critical role trust plays in a technology such as blockchain, which uses its transparency, security, and immutability to gain users' trust. Fifth, findings demonstrate how financial literacy is a bridging link in the relationship between DeFi take-up and financial resilience, while risk perception weakens the encouraging effects of trust in blockchain technology. To uncover direct, mediating, and moderating relationships, structural equation modeling will be utilized to analyze results from individuals and organizations involved with DeFi platforms. The research findings provide policymakers, academics, and practitioners with insights into potential solutions to promote a safe and inclusive DeFi ecosystem. The study fosters financial resilience and inclusion in an increasingly evolving decentralized financial landscape by addressing the trust, financial literacy, and risk perception of two distinct groups.

Keywords: Blockchain, Decentralized finance, Financial literacy, Financial resilience, Risk.

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Contribution of this paper to the literature

This study is unique in the field of Decentralized Finance (DeFi) applications concerning financial springiness in blockchain technology. An extensive literature survey revealed that very few research studies have been conducted in the area of Decentralized Finance (DeFi) applications.

1. Introduction

Decentralized finance, frequently abbreviated to DeFi, is an emerging modality of finance that, thanks to blockchain technology, eliminates the traditional intermediation mechanisms found in financing (Asl & Jabeur, 2024). DeFi means decentralized finance, and it functions beyond central financial institutions. A lot of work needs to be done to build a more transparent and secure financial system. Decentralized crypto-assets, financial resilience, attestation processes, inter-office entangling stranglehold, mediating the effect of faith in blockchain technology pursuit. This paper explores the concept of interdependencies in financial behavior and technology adoption (Hidayat-ur-Rehman, 2024).

Decentralized finance (DeFi) is one such pillar of a nascent financial framework. This provides a decentralized solution to conventional banking and financial services. By leveraging smart contracts running on blockchain technology, DeFi transforms the financial services sector by lowering transaction fees, removing intermediaries, and providing new opportunities to access financial instruments (Ozcan, 2021). It offers many services, from lending to borrowing to trading to asset management, making it a one-stop shop for users to help them reach their financial goals safely and transparently. Decentralized finance is nascent but gaining serious traction. The boom in blockchain technology has made such growth possible, and the market needed decentralized solutions (Fosso Wamba, Kala Kamdjoug, Epie Bawack, & Keogh, 2020). The debate on personal versus system-wide financial stability has gained momentum, and financial resilience, the ability of businesses and households to absorb and recover from economic shocks, has become a central component of economic model development. Lessons learned from the economically chaotic world have informed proposed reforms for financial systems capable of withstanding increasing volatility in the 21st century, with the COVID-19 pandemic serving as an example (Stephan, Al-Turjman, Ravishankar, & Stephan, 2022). DeFi is a distinctive enabling force of greater financial resiliency through its decentralized architecture and sophisticated techniques. These options include liquidity management, asset diversification, and financial independence (Najam, Abbas, Álvarez-Otero, Dogan, & Sial, 2022).

Trust in blockchain, which underlies DeFi and its effect on financial resilience, is built in by design. Immutability, transparency, and decentralization are the essence of blockchain technology, making the system more trustworthy among users. However, perceived risks, regulatory uncertainty, and technological challenges can slow trust-building. This study concluded that belief in blockchain technology serves as a key mediator in the pervasive realization of decentralized finance and advances its evolution toward precise fiscal resilience (Mothafar et al., 2024). This paper examines the relationship between decentralized finance adoption and financial resilience. It considers several variables: trust in blockchain technology, financial literacy, perceived ease of use, and risk perception. DeFi adoption refers to the frequency and scale of interaction with decentralized applications. In financial terms, resilience involves managing liquidity, building asset diversity, and absorbing shocks (Arnone, Costantiello, Leogrande, Naqvi, & Magazzino, 2024). How trust comes into play is very important: it serves as a bridge between the two aspects, allowing for dependency on the security and transparency of the blockchain. The current study explores financial literacy and perceived ease of use as antecedents and moderators to better inform about contextual factors that increase financial resilience from decentralized finance adoption (Abdelwahed, Al Doghan, Saraih, & Soomro, 2024). This study examines how DeFi contributes to increased financial resilience through the mediating variable of trust built into blockchain technology. It focuses on factors such as financial literacy and risk perception that reinforce or undermine trust. The study aims to contextualize and develop theory-driven constructs and practical techniques that promote financial resilience by leveraging decentralized finance. This will be the first time this approach is implemented in a large establishment (Jiang, Mintah Ampaw, Asante, Wu, & Essilfie, 2024).

The results of this study are relevant to various stakeholders, from academics to legislators to the finance sector. The findings offer suggestions for legislative and infrastructural needs to create a secure, fair DeFi ecosystem for policymakers. These conclusions assist finance professionals in developing user-centric solutions that address issues related to trust and usability. The background provided offers a comprehensive foundation for scholarship on the socio-economic impacts of decentralized finance, particularly concerning enhanced financial inclusion and resilience (Zumbansen, 2023). As much as DeFi holds immense potential, its real-world application faces many challenges. The key issues are the lack of established regulatory frameworks, cybersecurity threats, and market volatility. This complex underlying architecture can be overwhelming for inexperienced individuals in the financial or technology sectors, creating entry barriers for such users (Atieh, Cooke, & Osiyevskyy, 2023). Despite its shortcomings, DeFi has unparalleled potential to democratize currency and foster resilience. Implementing appropriate interventions and building trust in blockchain technology can address these challenges and maximize DeFi's full potential (Aoun, Ilinca, Ghandour, & Ibrahim, 2021). This research contributes to our understanding of financial resilience at the household level when the industry is increasingly dependent on trust in institutions rather than trust in the blockchain and investigates how DeFi will shape financial resilience in the future. It enhances theory while providing policy implications for the effective adoption and efficacy of decentralized financial systems (Mohammed, De-Pablos-Herederro, & Montes Botella, 2023).

The study is organized into sections that progressively delve into the comprehensive impact of DeFi adoption on financial resilience, starting with an introduction that establishes the research context, aims, and importance. Then, a literature review examines key topics, including DeFi, trust in blockchain technology, financial resilience, financial literacy, and risk perception. Research methodology describes the structure, data collection, and analytical approaches used to examine the proposed relationships. The results and discussion section reports the findings, illustrating the variables' direct, mediating, and moderating effects. In closing, a concluding section highlights the implications of this study's contributions to practice and areas of future work, while also calling attention to the need for trust and access to financial literacy in building a resilient and inclusive DeFi ecosystem.

2. Literature Review

DeFi and its ability to be a new paradigm shift through a new-release revolution, creating an ethereal shift towards a positive transformation of financial resilience and adopting alternative routes that offer innovative, secure, and transparent financial solutions based on the blockchain while bypassing traditional banking infrastructures (Baptista, Januario, & Cruz, 2023). As another added feature, DeFi makes smart contracts and blockchain its foundation, promoting transparency and security through immutable and cryptographically secured transactions. It significantly minimizes the potential for fraud and error while enhancing the inherent trustworthiness of financial transactions. This not only democratizes the range of bank-like services available to a new clientele but also disintermediates the entire process, allowing those who are lending, borrowing, and trading to do so free from burdens imposed by intermediaries. The inclusion provides access to many more people, equipping them with the tools to manage their financial risks. Furthermore, integrating relevant sustainability principles into financial risk management through decentralized finance (DeFi) engenders environmentally conscious solutions and enhances resilience by addressing economic and ecological threats before they arise (MacCarthy & Ivanov, 2022).

The developments in fintech and digital currencies are equally important in stabilizing financial markets. They reduce risks such as exchange rate fluctuations and oil price volatility and promote economic stability and resilience (Li & Umair, 2023). Inclusive digital finance catalyzes digital enterprise transformation as it relaxes financing constraints and prompts TIEs, mass production, and innovation while optimizing general business risk reduction, leading to enhanced business profitability and economic resilience. However, the growing DeFi ecosystem raises challenges and concerns, such as security risks and regulatory uncertainties, that can be addressed using the Secure Decentralized Finance Framework. Risk exposures need to be understood and measured so DeFi, which drives the resiliency of the financial and economic system, can scale sustainably (Wiklund, 2023).

H₁: DeFi adoption (DFA) positively influences financial resilience (FR).

DeFi utilizes the characteristics of transparency, security, and decentralization of online blockchain technologies to create financial services that do not require intermediaries, thereby increasing trust in the blockchain. DeFi employs open and transparent blockchain networks based on consensus mechanisms, enabling users to independently verify and ensure the validity of transactions, thus reducing dependency on intermediaries to establish trust (Curry, 2025). Transactions are permanent; users are confident in their systems as the blockchain is cryptographically protected. DeFi encourages financial inclusion worldwide through financial services and platforms using the technology of smart contracts and blockchains, concepts unimaginable where banks were unavailable in a nation. Such a shift towards this paradigm is a step forward for social equality and the aspiration of blockchain-decentralized technology (Ramasamy & Khan, 2024). DeFi creates a platform for users to be more confident about their assets through peer-to-peer transactions and smart contracts, further increasing blockchain technology's decentralization and equality.

As a result, in this new development model, financial solutions can interact between blockchains, creating space for innovation and informal relationships. An integral element of the near-infinite potential of the blockchain, this open-source, transitory sphere pushes the boundaries of what financial applications on the blockchain are already capable of (Nain, Pattanaik, and Sharma 2022). Over USD 100 billion in security has been accrued on DeFi smart contracts without any protocol hack. Seeing consumers recognize blockchain as a legitimate replacement for traditional financial systems is tremendous validation. The progress has been significant, but regulatory uncertainty, safety concerns, and weaknesses in smart contracts are some of the usual drawbacks referred to by the experts. Such issues must be addressed if trust in blockchain is to be maintained and strengthened as DeFi remakes the financial system (Wronka, 2023).

H₂: DeFi adoption positively influences trust in blockchain technology (TBT).

The rise of Decentralized Finance, the core strengths of blockchain transparency, security, and immutability have been its building blocks, and confidence in numerous regions of blockchain technology is once again established upon the birth of DeFi (Schueffel, 2025). DeFi allows users greater control over their assets, and deals eliminate intermediaries, reducing the risk of fraud and error. Data written on the blockchain is almost tamper-proof thanks to the technology's transparency feature and consensus mechanism, which enables users to verify transactions independently. Simultaneously, its cryptographic security offers an additional layer of protection, safeguarding users from fraud and providing access to confidential (sensitive) information (Almuzaini et al., 2022). These elements and attributes are foundational for a safe, credible environment for DeFi environments.

By disrupting those intermediaries, DeFi is making crypto even more trustless, eradicating human error and superfluous costs to unlock the potential for peer-to-peer transactions. Smart contracts define an agreement that can be executed automatically once certain conditions are fulfilled; such contracts reduce the need for a middleman and shift the trust towards a developed blockchain ecosystem with security and reliability (Bruel & Godina, 2023). In particular, the borderless and permissionless properties of DeFi enable financial inclusion for uninsured or underbanked users neglected by traditional financial institutions, positioning blockchain as a universal and trusted financial system. The programmability and interoperability of DeFi solutions further drive innovation and blockchain is rapidly emerging as a trusted, go-to infrastructure for financial services. However, regulatory clarity, the potential for hacks, and the implementation of various security measures are needed to ensure this trust and, ultimately, the continued growth of DeFi platforms (Wronka, 2023).

H₃: Trust in blockchain technology (TBT) positively influences financial resilience.

2.1. Relationship between Trust in Blockchain Technology (TBT), DeFi Adoption and Financial Resilience

More importantly, the interactions between DeFi adoption and financial resilience are affected by the nature of confidence that society's people place in the benefits of blockchain technology. The foundation of DeFi is blockchain, a decentralized and open technology that enables secure transactions of various types without relying on traditional intermediaries (Auer, Haslhofer, Kitzler, Saggese, & Victor, 2024). The need for decentralized trust, supported by the immutability and transparency of blockchain transactions, is essential to inspire confidence in DeFi platforms, ensuring that financial transactions are legitimate. This all comes thanks to the trust in blockchain

technology that gave us DeFi, where rules are enforced via smart contracts so that human error and fraud seem significantly reduced, and financial services are, for instance, more accessible (Chen & Bellavitis, 2020).

The risk capacity allows for greater resiliency in prosperity and social arrangements through the financial services enabled by DeFi, which are less susceptible to systemic failures that plague traditional financial systems. Breaking it down further, cover the digital business strategies that lead to enhanced financial performance and operational innovation, and finish with a use case of how they can drive the implementation of capabilities that lead to improved outcomes through blockchain (Bag, Rahman, Gupta, & Wood, 2023). However, unlocking the power of this ecosystem could depend on overcoming a host of challenges, including regulatory ambiguity and potential fragility such as bugs and scams in DeFi systems. As a credit market ecosystem based on trust architecture forms the foundation of the blockchain, appropriate governance, antifraud protocols, and regulatory frameworks should be adopted, thereby promoting a secure, resilient, and reliable financial ecosystem (Rawhouser, Vismara, & Kshetri, 2024).

H₁: Trust in blockchain technology (TBT) influences between DeFi adoption and financial resilience.

FL improves FR and also boosts the positive effect of DFA on FR. Greater financial literacy equips individuals with the tools to navigate financial risks, make informed decisions, and optimize the use of intricate DeFi products and services. Financial literacy is important for a stable economy, supporting national economic health (Goyal & Kumar, 2021). In Montenegro, for instance, better financial practices (e.g., saving money and using credit responsibly) were associated with higher financial literacy, and in China, socioeconomic development was associated with lower exposure to household financial risk, allowing households to recover more quickly from economic shocks. Similarly, a recent study out of Cyprus demonstrates that financial literacy is a strong predictor of financial resilience, as literates are more likely to be prepared for financial shocks (Roszko-Wójtowicz, Deep Sharma, Dańska-Borsiak, & Grzelak, 2024).

It thus indirectly feeds DeFi adoption, as these financial literacy components directly contribute to a user's financial resilience, and users make more informed decisions when entering the DeFi space. However, the issue with many DeFi products is that they exist at a fairly high level of sophistication many people have limited financial literacy, which limits their ability to harness DeFi's potential to widen resilience (Xu, Zhu, Yang, Lu, & Xu, 2024). This makes user financial education a critical area of focus to maximize the benefits that DeFi adoption can provide to those who access the sector, and the solutions it offers will only add profit and value to their experience (Remund, 2010).

H₂: Financial literacy (FL) strengthens the positive relationship between DeFi adoption and financial resilience.

Risk perception (RP) might be a potential moderator in the relationship between trust in blockchain technology (TBT) and financial resilience. Privacy concerns, technology maturity, and individual risk perception contribute to a lack of confidence in blockchain and blockchain-based financial solutions, which can reduce their financial sustainability (Hassani, Avdiu, Unger, & Mazinani, 2023). High perceived risks undermine trust and optimism in the cryptocurrency space; however, these factors are also essential for the perceived value and efficacy of such technologies in increasing the financial resilience of the population.

Therefore, controlling the effect of risk perception can help maintain a more robust TBT-FR nexus. Education and financial literacy are essential in mitigating perceived risks, enhancing trust, and promoting blockchain technologies. Furthermore, these more professional and security-focused companies will decrease risk perceptions and increase trust and willingness for blockchain solutions by addressing governance and awareness measures (Singh et al., 2022). High-risk perception remains a challenge, yet it is surmountable; effective measures that address these concerns can help pave the way for building trust in blockchain and unleash its transformative potential for enhancing financial resilience (Kumar, 2024).

H₃: Risk perception (RP) weakens the positive relationship between trust in blockchain technology (TBT) and financial resilience.

The integration of DeFi into existing paradigms has enormous potential to increase access to financial tools and, ultimately, strengthen financial resilience, with notable gaps in the literature; notably, studies examining the mediating impact of trust in Blockchain Technology (TBT), the moderating role of Financial Literacy (FL), and Risk Perception (RP) on financial resilience (FR) have yet to be conducted. Few studies have considered these factors and their relevance to DeFi adoption. To address these shortcomings, the researcher selected the topic of his study to be "The Impact of DeFi Adoption on Financial Resilience: The Mediating Role of Trust in Blockchain Technology," aiming to explain how trust, literacy, and risk perception can affect DeFi adoption and, in turn, provide actionable insights to policymakers to promote financial inclusion and the sustainability of DeFi ecosystems.

3. Research Methodology

This study adopts a multi-method research approach to explore the relationship between DeFi adoption and financial resilience, the mediating effect of trust towards blockchain technology, and the moderating effects of financial literacy and risk perception. The research takes a quantitative approach, including model conceptualization from individuals and organizations actively engaging with DeFi platforms. A structural equation modeling (SEM) methodology reflected in the model will investigate the hypothesized relationships between proposed variables such as DeFi adoption, trust in blockchain technology, financial resilience, financial literacy, and risk perception. The majority of the data-collection instruments were designed to measure these constructs using scales already established in the literature, ensuring validity and reliability. The sample selection aims to gather survey participants' views on the practical aspects of DeFi adoption and its consequences. It utilizes robust statistical tools to measure direct, mediating, and moderating effects and provides detailed comparative evidence on the drivers behind financial resilience within the DeFi context. The findings are intended to inform theoretical development, practical implementation, and regulatory recommendations concerning confidence and resilience in trustless financial infrastructures.

3.1. Research Objectives

- To examine the role of decentralized finance adoption as a financial resilience factor based on liquidity, asset diversification, and economic shocks.
- To explore blockchain technology trust as a mediator between DeFi adoption and financial resilience.
- To investigate the moderating effect of financial literacy on DeFi adoption and financial resilience.
- To investigate the effect of risk perception as a moderator on the relationship between trust in blockchain technology and financial resilience.
- To explore how financial literacy and perceived ease of use increase financial resilience in adopting the DeFi context. The findings on trust, risk perception, and financial literacy will inform the formulation of policy recommendations for creating an environment conducive to a secure, fair, and inclusive DeFi ecosystem.
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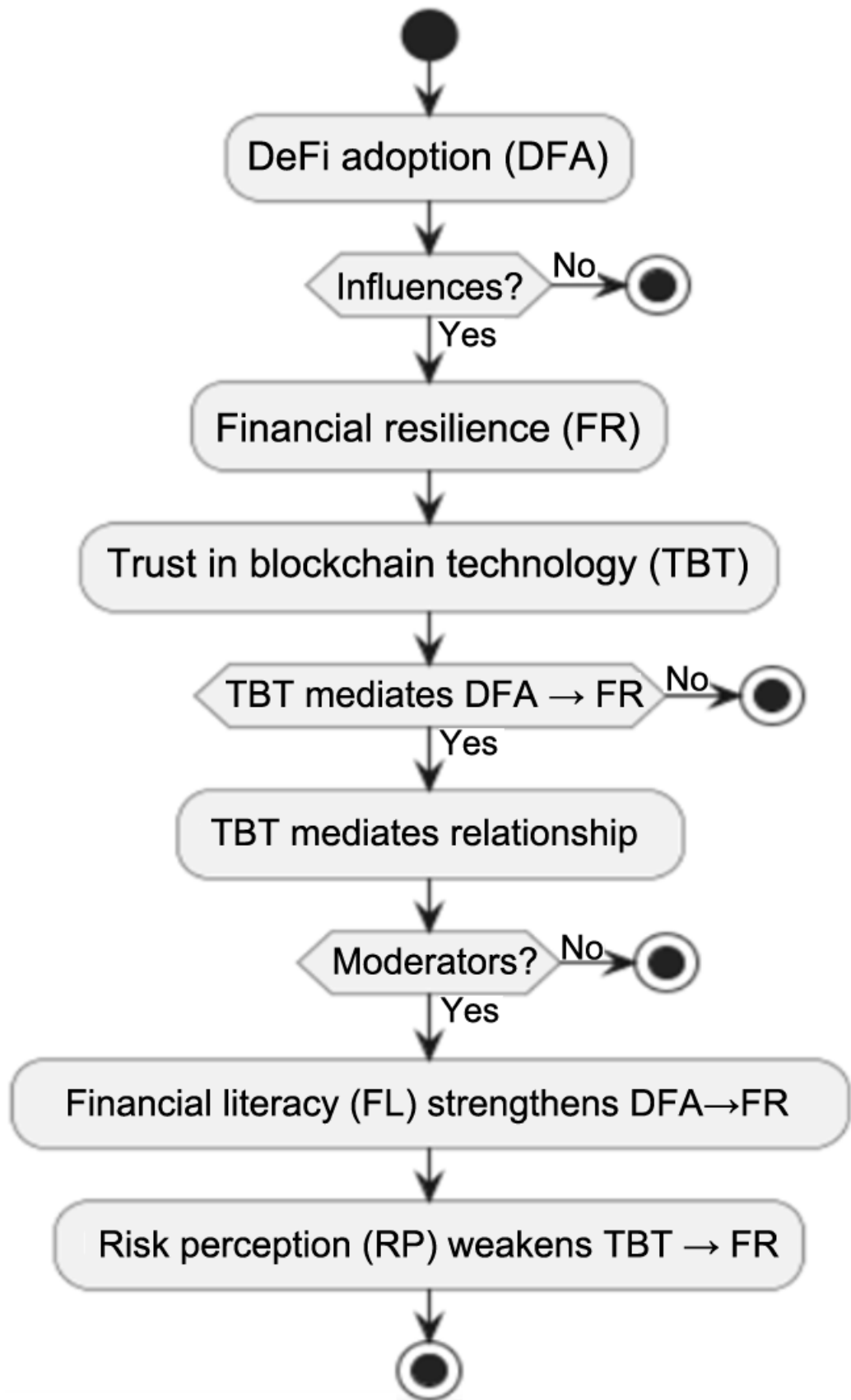


Figure 1. Conceptual framework showing the mediating role of trust in Blockchain technology and the moderating role of financial literacy in DeFi adoption and financial resilience.

3.2. Interpretation and Discussion of the Model

This activity diagram in Figure 1 illustrates the presumed relationships between all constructs concerning DeFi adoption, financial resilience (FR), and trust in blockchain technology (TBT), as well as the moderating variables. The reason is that DDA is the independent variable, and the diagram is set to DeFi adoption as the

reference value. Focus mainly on the question of whether DFA has any effects on other constructs in the model. A decision node clarifies if the DFA has any effects. In case of no influence, the process ends, but if DFA shows significant effects, it moves the flow towards two constructs: FR (financial resilience) and TBT (trust in blockchain technology).

As shown in the figure, DFA positively directly affects FR, consistent with H1, which argues that people who embrace DeFi are more financially robust. At the same time, H2 aligns with the observed positive relationship between DFA and TBT, implying that attending DeFi platforms improves individuals' trust in blockchain technology as an underlying mechanism.

Then, the model examines whether TBT mediates the relationship between DFA and FR, as posited in H4. First, create a decision node that determines if there is mediation. If the mediating effect is not established, the process stops here. However, if there is a mediator, the flow continues, recognizing that TBT is a bridge by which DFA indirectly contributes to FR. This mediating effect highlights the important function of trust in blockchain technology in converting the benefits of adopting DeFi into real financial survival.

The model also incorporates moderating variables to account for conditional effects. A second decision node (2a) inquires whether moderators influence the connections within the model. If no moderators are present, the process concludes. However, if moderators exist, the flow proceeds to the moderating effects. Based on H5, financial literacy (FL) is identified as a positive moderator because it enhances the relationship between DFA and FR. This suggests that individuals with higher financial literacy are more likely to benefit from DeFi adoption. Conversely, risk perception (RP) acts as a negative moderator (H6), reducing the TBT-FR relationship. This indicates that individuals perceiving greater risk may experience lower gains from blockchain trust when pursuing financial resilience.

The flow concludes after demonstrating all paths in the proposed model. The activity diagram generally encapsulates the theoretical framework, including direct effects, mediating effects, and moderating influences. This clearly communicates the logical progression of relationships and interactions and provides a strong visual representation of the conceptual model underlying the research. This method allows for a better interpretation of how DeFi adoption, trust in blockchain technology, financial literacy, and risk perception act together to support financial resilience.

4. Conclusion

In summary, the activity diagram serves not only as a pictorial representation of their hypothetical interaction but also illustrates the possible representations and interactions between DeFi adoption, financial resilience, and Trust in Blockchain Technology (TBT) as moderating variables of Financial Literacy (FL) and Risk Perception (RP). These immediate impacts are then built upon a base, depicted in the chart, where DFA is a main contributing factor to fiscal health, not to mention merchant trust in blockchain technology. The relationship between DFA and FR (H1) shows that decentralized finance positively affects people's ability to make transactions. Today, even if one does not discuss extreme DFA (H2), the role of TBT is emphasized. DeFi demystifies trust in underlying technological information; one must effectively be fairly pressured or incentivized for adoption alone.

Recent theoretical developments could also benefit from understanding how TBT, as indicated in H4, mediates the relationship between DFA and FR, thus indirectly providing a mechanism by which DFA can enhance FR. This mediation suggests that trust in blockchain technology is necessary to transform Fi adoption into greater economic resilience. It indicates that establishing trust in blockchain platforms amplifies the benefits of DeFi adoption, offering useful implications for practitioners seeking to boost user confidence in decentralized systems.

This is valuable due to the addition of moderating variables, which enhance the model by recognizing individual difference variables that affect these relationships. Results: Financial literacy (H5) is a significant positive moderator, implying its magnifying role in the relationship between DFA and FR. This indicates that our conclusion aligns with the literature that people with higher financial literacy would be better prepared to understand and leverage DeFi platforms, leading to better economic resilience. In contrast, risk perception (H6) is a negative moderator, weakening the relationship between TBT and FR. This highlights the difficulty arising from high-risk perception, which can neutralize the positive effect of blockchain trust on financial outcomes.

The activity diagram captures the direct, mediating, and moderating effects illustrated in this table and integrates them into a cohesive theoretical model. It also provides practical implications for researchers, policymakers, and practitioners by pinpointing important mediation mechanisms for strengthening financial resilience through DeFi adoption. By removing barriers such as risk perception and focusing on financial literacy, it accelerates the positive potential of DeFi and blockchain technologies, moving towards more inclusive and sustainable financial systems, thus presenting a model with implications for society to use DeFi and trust for better financial resilience.

Expanding the scope of future research in this field is significant, as DeFi, trust, financial resilience, and personal moderating factors continue to develop at a rapid pace. Several potential areas for future exploration emerge from this framework:

1. **Contextual and Regional Variations:** Further research could explore the hypothesized relationships in different geographic, cultural, and economic contexts. A more refined approach to financial governance, which integrates DeFi, is probable, although its specific adoption and effects on financial resilience will depend on the regulatory environment, technological infrastructure, and cultural attitudes toward financial innovation. Additionally, cross-country studies (e.g., between developed and developing economies, or between regions with differing levels of blockchain adoption) could be very informative.
2. **Longitudinal Analysis:** This approach offers a longitudinal perspective, enabling researchers to evaluate how DeFi adoption, trust in blockchain technology, and financial resilience change over time. It may facilitate a better understanding of how these relationships develop, particularly in response to technological evolution, market conditions, or regulatory initiatives.
3. **Expanded Constructs and Variables:** Incorporating additional constructs, including perceived ease of use, social influence, and safe economic shocks, would further strengthen the model. Examining other possible

mediators (e.g., perceived financial empowerment) or moderators (e.g., age, gender, and income level) would provide a richer understanding of the effects of DeFi.

4. Role of Behavioral and Psychological Factors: The role of behavioral and psychological factors such as risk tolerance, technology anxiety, and financial self-efficacy remains largely unexplored. Furthermore, understanding the interaction of these factors with other parameters, such as trust and adoption, may assist in developing targeted strategies to promote DeFi and blockchain adoption.
5. Impact on Financial Inclusion: DeFi is frequently lauded as a means of improving financial inclusion. Future work could explore how it uniquely affects underserved populations such as rural areas, women, or people without formal banking systems. More research is needed on the role of financial literacy as an enabler in these contexts.
6. Dynamic Risk Perception: Investors, on the other hand, may see a further divergence of opinion as to how risky crypto is depending on sudden shifts in the crypto space such as lack of confidence in the market, acts of fraud, or a number of technological advancements. Research that examines how perceptions of risk evolve over time and how they, in turn, influence trust and financial resilience would yield practical guidance for stakeholders.
7. Integration with Emerging Technologies: Exploration of the intersection of DeFi with other emerging technologies such as AI, machine learning, and IoT is also ripe for exploration. Clarifying the design criteria for how these technologies can facilitate or, conversely, constrain trust and adoption will help chart a course for how the field can make progress.
8. Policy and Regulatory Frameworks: A key priority is to understand how policy interventions or regulatory frameworks can influence DeFi adoption and trust. Further research could analyze how different regulatory frameworks enable a secure and diverse DeFi environment.

Future research can further elaborate upon the insights generated primarily in this study for a better understanding of mechanisms and contextual reasons for DeFi adoption and how that relates to broader socioeconomic outcomes by mapping along the domains addressed here. These investigations then reward developing and articulating even more powerful and actionable strategies for unblocking DeFi and fortifying global economic resilience.

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