

Cryptocurrency Insights: Analyzing Public Perception

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Abstract:

Understanding cryptocurrency adoption delved into diverse facets of this evolving landscape. Insights garnered from survey responses and data analysis revealed nuanced perspectives among participants. Notably, while a significant portion adopted a neutral stance on the future mainstream adoption of cryptocurrencies, security concerns and regulatory uncertainties emerged as pivotal factors influencing investment decisions. Factors such as the potential for high returns and technological innovation were identified as primary drivers of cryptocurrency investment behavior. However, a substantial proportion expressed uncertainty or reluctance in recommending cryptocurrency investments to others, underscoring the need for enhanced investor education and awareness campaigns. Leveraging these insights, recommendations were formulated to address regulatory clarity, investor education, and cybersecurity measures, aiming to foster a more transparent and secure cryptocurrency ecosystem. By navigating these complexities and implementing the suggested measures, stakeholders can pave the way for a more informed and conducive environment for cryptocurrency adoption and investment in India.

Keywords: Cryptocurrency, innovation, investments, cybersecurity, perspectives

1. Introduction

A cryptocurrency is a digital or virtual currency that is protected by encryption, making counterfeiting and double-spending practically impossible. Many cryptocurrencies are built on blockchain technology, which is a distributed ledger enforced by a distributed network of computers, developed and introduced in 2009. Bitcoin, the first and most popular cryptocurrency, is paving the way as a disruptive technology to long-standing and unchanged financial payment systems that have been in place for many decades in Nakamoto (2008).

Cryptocurrencies differ from conventional financial instruments by the fact that they are not issued by any central authority, making them potentially resistant to government intervention or manipulation. Cryptocurrency is neither issued by a central authority nor does it exist in a physical form like paper money. Cryptocurrency is a digital currency based on the use of cryptography to secure transactions, control the creation of additional units, and verify the transfer of assets, using encryption to authenticate

and protect transactions. Each "cryptocurrency" has a unique set of features and cannot be analyzed or understood by making general observations. The term is used as a generic representation of all such tokens which are generated through cryptography.

In current parlance convertible, decentralized virtual currencies are referred as "cryptocurrencies". While cryptocurrencies are not likely to replace traditional fiat currency, they could change the way Internet-connected global markets interact with each other, clearing away barriers surrounding normative national currencies and exchange rates. Technology advances at a rapid rate, and the success of a given technology is almost solely dictated by the market upon which it seeks to improve. Cryptocurrencies may revolutionize digital trade markets by creating a free-flowing trading system without fees.

One estimate puts the number of cryptocurrencies at around 13,217, with a total market capitalization of 2.48 trillion U.S. Dollars as of March 31st, 2024. Bitcoin, Ethereum, Binance Coin, Cardano, Solana, Ripple, Polkadot, Avalanche, dogecoin, and SHIBA INU are among the leading cryptocurrencies as of 2024 Coinmarketcap (2024). There is a large variation in characteristics of the cryptocurrencies which are also evolving over time due to the evolution of unique features of each such instrument.

Although Bitcoin was the first established cryptocurrency, there have been previous attempts at creating online currencies with ledgers secured by encryption. B-Money and Bit Gold were two such currencies that never got fully developed Szabo (1998).

Bitcoin emerged in 2009 following the publication of a white paper by an anonymous individual or group known as Satoshi Nakamoto, proposing a decentralized digital currency system based on cryptography rather than on trust with a third party like banks or any other financial institutions Nakamoto (2008). Initially of little value, Bitcoin gained traction as enthusiasts experimented with the technology. Its first real-world transaction occurred in 2010 when 10,000 Bitcoins were exchanged for two pizzas by Laszlo Hanyecz, a programmer. Over time, Bitcoin's value surged, attracting mainstream attention and adoption. However, challenges arose, including hacking incidents at major exchanges like Mt. Gox, highlighting the currency's volatility and regulatory uncertainties Popper (2015). Despite these obstacles, Bitcoin's price continued to rise, reaching over \$1,000 in 2013. Subsequent years saw growing institutional interest and investment, cementing Bitcoin's status as a legitimate asset class Hileman & Rauchs (2017). Today, Bitcoin remains at the forefront of the cryptocurrency space, with ongoing developments of seamless transactions across the digital world.

2. Statement of Problem

Despite the growing interest in cryptocurrency investment and adoption among Indian adults, there remains a notable lack of comprehensive understanding regarding the factors influencing their behavior, perceptions, and investment intentions. This research problem aims to address the gaps in knowledge by investigating the multifaceted dynamics of cryptocurrency awareness and behavior among Indian adults, with a particular focus on identifying the key drivers, barriers, and implications for mainstream adoption and investment.

This research aims to investigate the relationship between how the public perceives cryptocurrency and

the resulting behavior in cryptocurrency markets. It also delves into the extent of public awareness and understanding of cryptocurrency concepts, thus contributing to a deeper understanding of the factors driving the cryptocurrency ecosystem.

Objective of the Study

To study the awareness of cryptocurrency among adults.

To study the perceptions and attitudes of people towards cryptocurrency investments.

To identify the primary factors that influence the cryptocurrency investment behaviour of people.

To assess the prospective investment intention of people towards cryptocurrency in future.

3. Literature Survey

Cryptocurrency Awareness and Adoption in India: A Literature Review by Gupta, A. (2023): Gupta's comprehensive review focuses on cryptocurrency awareness and adoption trends across India. Highlighting India's rapid technological growth and diverse demographics, the study explores factors influencing adoption, regulatory environments, and potential economic impacts. It serves as a crucial resource for policymakers, stakeholders, and researchers interested in navigating the opportunities and challenges of cryptocurrency adoption in India's dynamic digital landscape.

Cryptocurrency Awareness and Attitudes in Kerala: A Review by Nair, K. (2023): Nair's study zooms into Kerala, India's socio-culturally distinct state, to examine cryptocurrency awareness and attitudes. By analyzing regional disparities and factors like education and urban-rural divide, the study offers insights tailored to Kerala's unique context. This localized perspective is invaluable for designing targeted strategies and interventions that resonate with Kerala's population, known for embracing technological innovations.

An Empirical Study on Cryptocurrency Awareness in South India by Menon, A. (2022): Menon's empirical investigation focuses on South India's diverse cultural and economic landscape. By providing concrete data on cryptocurrency awareness levels, the study offers nuanced insights applicable to policymakers and stakeholders aiming to promote adoption in this region. Its findings contribute significantly to understanding regional dynamics within India's broader cryptocurrency adoption narrative.

A Study on Cryptocurrency Awareness among College Students in Kerala by Nair, S. (2018): Nair's study examines cryptocurrency awareness among college students in Kerala, emphasizing their role as early adopters and influencers. The study's insights are pivotal for educational initiatives and regulatory frameworks tailored to engage young adults in cryptocurrency discussions, both in Kerala and potentially across India.

Cryptocurrency Awareness and Adoption in Urban India: A Review by Sharma, R. (2023): Sharma's review delves into urban India's landscape, highlighting digital literacy, technological access, and cultural attitudes towards cryptocurrencies. This study is crucial for stakeholders targeting urban centers, offering strategic insights to foster cryptocurrency adoption and financial inclusion amid rapid urbanization and digital transformation.

Exploring Cryptocurrency Awareness among Professionals in India: A Review by Patel, A. (2022): Patel's study investigates cryptocurrency awareness among professionals across sectors in India. Focusing on factors like education and occupational exposure, it informs strategies for financial service providers and policymakers aiming to cater to professionals' evolving preferences in digital assets and alternative investments.

These studies collectively contribute a mosaic of insights into cryptocurrency awareness and adoption across different demographics and regions within India, offering valuable implications for policymaking, industry strategies, and future research directions.

4. Materials and Methods

The research was carried out based on Primary and Secondary data. Efforts were made to collect the actual response about the 'Cryptocurrency Insights: Analyzing Public Perception'. The primary data for this purpose of structured questionnaire was developed to collect the responses from adults. And the secondary data was collected from books, journals, and other published sources. Websites are also visited to collect secondary data. The research design employed in this study is descriptive research design. This design allows for analysing and studying the perceptions and attitudes relating to cryptocurrency investment. The sample size used in this study consists of 54 respondents. These respondents were selected based on convenience sampling, where participants were easily accessible and willing to participate. A structured questionnaire was developed to collect primary data for the study. The questionnaire was designed based on the research objectives and was administered using a Google Form.

For analysing the data collected from the questionnaire, the researcher used various tools, including descriptive statistics, percentage analysis, ranking, and scoring. The Likert scale was utilized to gauge respondents' perceptions, and the data were presented using bar charts, pie charts, and tabulations in MS Excel. Samples were gathered from Southern India, with a primary focus on areas within Kerala, Tamil Nadu, Karnataka and Andhra Pradesh alongside specimens collected from the Mumbai and Bahrain. The research will encompass individuals from diverse geographical locations and age demographics. This study aims to examine public awareness and perceptions regarding cryptocurrency investment. The present society is more inclined towards digital currencies and transactions, as cryptocurrencies can have a significant impact on them.

5. Empirical Results

Study is purely descriptive in nature. This research uses both primary and secondary data for the study. The primary data was collected from 70 respondents from Kerala. This includes a mix of students, adults, working category and some middle-aged public. Random sampling has been used to collect data from the public. The data gathered has been analyzed by frequency and percentage analysis methods which has arrived at many findings and results.

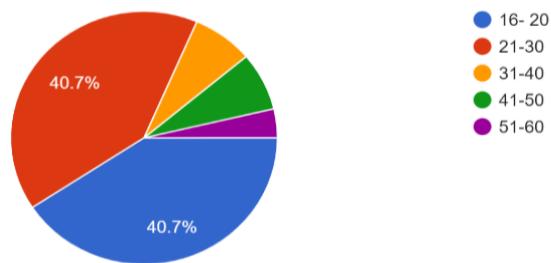
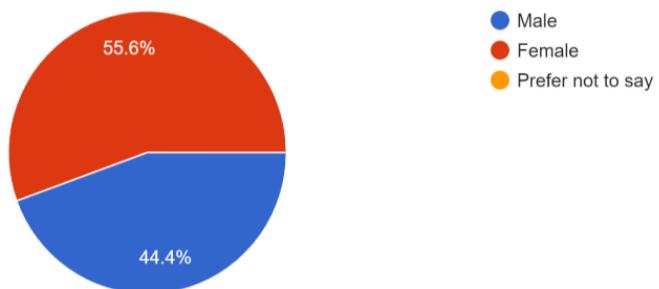
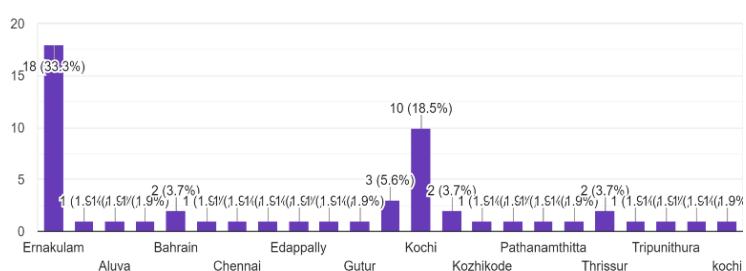
Figure 1: Age of Respondents**Figure 2: Gender of Respondents****Figure 3: Location of Respondents**

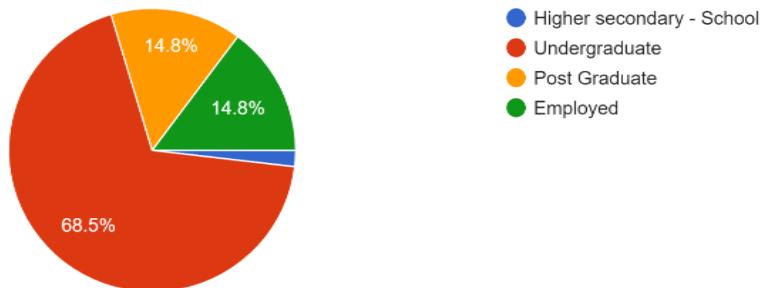
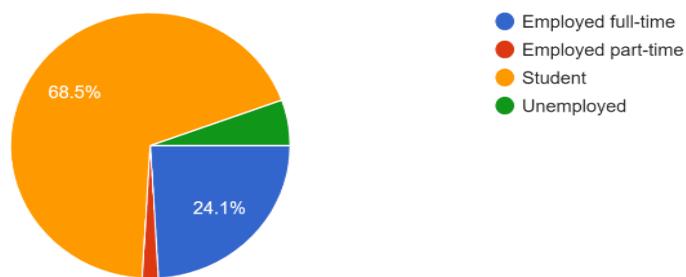
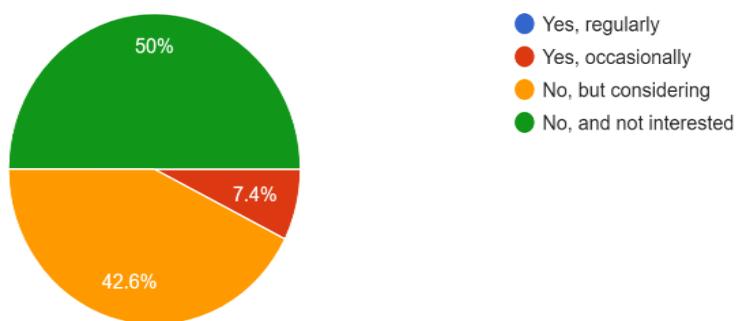
Figure 4: Occupation of Respondents**Figure 5: Employment Status of Respondents****Figure 6: Investment Pattern of Respondents**

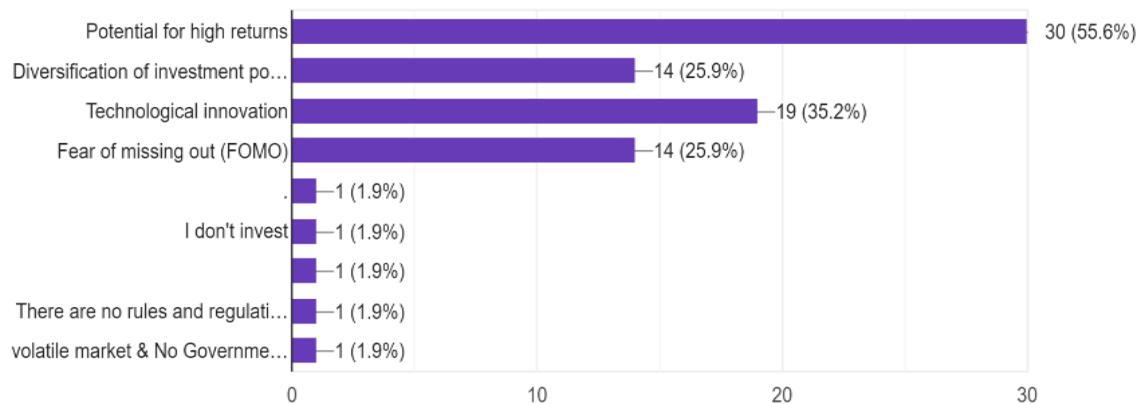
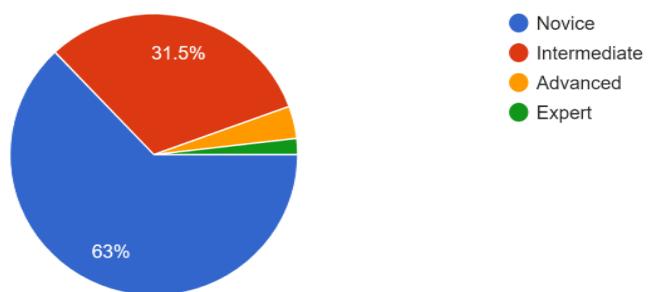
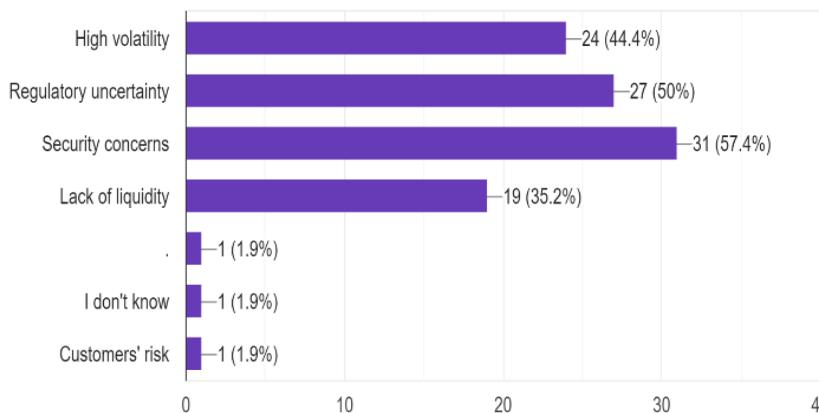
Figure 7: Factors influencing your investment decisions

Figure 8: Knowledge about cryptocurrency market

Figure 9: Risks associated with investing in cryptocurrencies


Figure 10: Cryptocurrencies will become mainstream in financial markets in the future

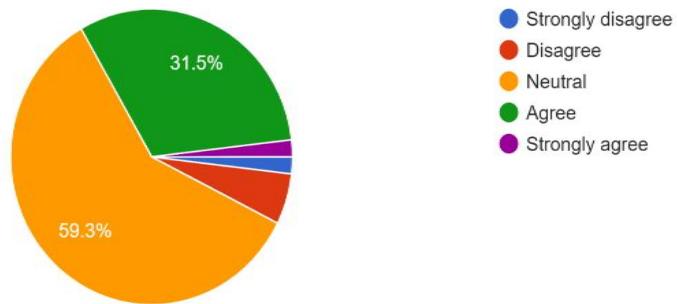


Figure 11: Perception regarding the regulatory environment surrounding for cryptocurrencies

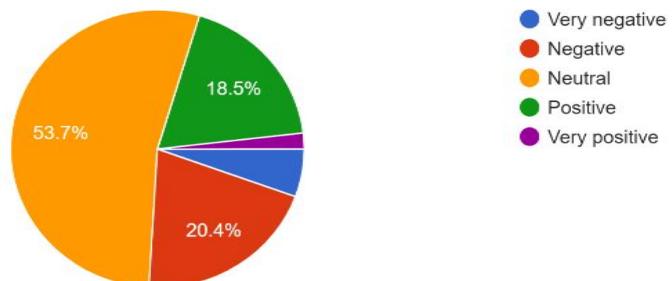


Figure 12: Challenges experienced in trading or using cryptocurrencies

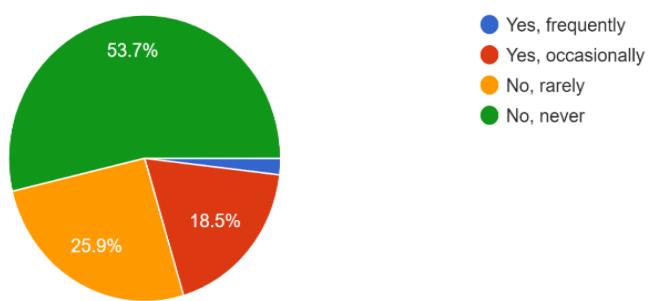


Figure 13: Cryptocurrencies affect traditional financial markets

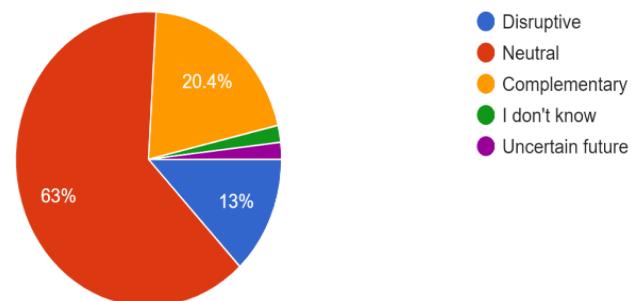
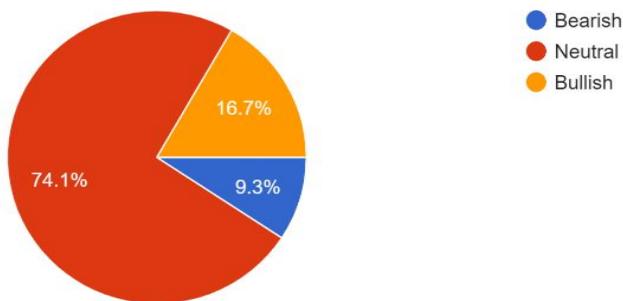
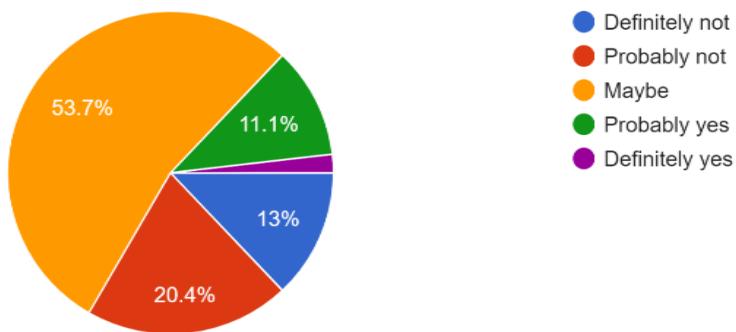
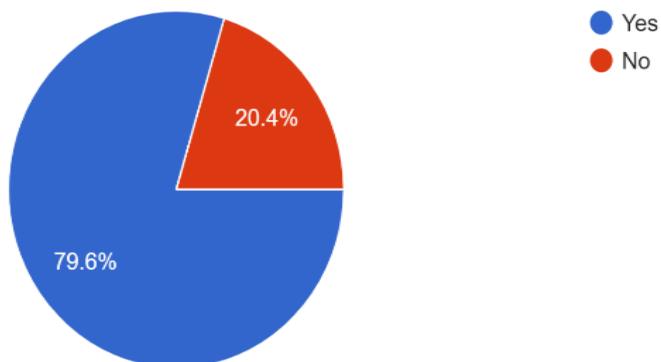


Figure 14: Long-term expectations for the performance of cryptocurrencies**Figure 15: Recommend investing in cryptocurrencies to others****Figure 16: If cryptocurrency is government regulated but remains intangible, would this increase your interest in cryptocurrency?**

6. Demographic Profile of respondents

6.1.1 Age of Respondents

The respondents in the study were divided into five age groups. The largest proportion of respondents falls under two age groups, 16-20 and 21-30, each having 40.7%, followed by 3.7% of the respondents from the 51-60 category. This indicates that a significant portion of the respondents are young adults and adults.

6.1.2 Gender of the Respondents

The study included many female respondents, comprising 55.6% of the total participants. On the other hand, male participants accounted for 44.4% of the population.

6.2 Findings based on objectives of the research

6.2.1 Objective 1: To study the awareness of cryptocurrency among adults

6.2.1.1 Limited Active Investment:

Around half of the respondents, 50%, expressed disinterest in investing in cryptocurrencies, indicating a significant portion of the surveyed population does not currently engage in cryptocurrency investments. Only a small percentage of respondents, 7.4%, invest occasionally, with none investing regularly, suggesting a low level of active involvement in cryptocurrency investment among the adults surveyed.

6.2.1.2 Interest in Future Involvement:

Despite the current low levels of active investment, approximately 42.6% of respondents expressed consideration towards investing in cryptocurrencies in the future, indicating a potential for increased adoption or interest among the surveyed adults. This finding suggests that while cryptocurrency investment may not be prevalent among the surveyed population presently, there is a notable portion open to exploring cryptocurrency investments in the future.

6.2.1.3 Varied Knowledge Levels:

Many respondents, 63%, identified themselves as novices in terms of cryptocurrency knowledge, indicating a basic understanding of cryptocurrency concepts. A significant portion of respondents, 31.5%, categorized themselves as having intermediate knowledge, suggesting a moderate level of understanding. A smaller yet notable percentage of respondents considered themselves to have advanced, 3.7% or expert, 1.9% knowledge levels in the cryptocurrency market, indicating a diverse range of knowledge levels among the surveyed adults.

6.2.1.4 Overall Awareness:

The findings suggest a mixed level of awareness among the adults surveyed, with a notable portion expressing interest in future cryptocurrency investment despite the current low levels of active involvement. The varied knowledge levels further highlight the diversity in understanding and familiarity with cryptocurrency concepts among the surveyed population, indicating opportunities for education and awareness-building initiatives to enhance cryptocurrency literacy among adults.

6.2.2 Objective 2: To study the perceptions and attitudes of people towards cryptocurrency investments

6.2.2.1 Perceived Risks in Cryptocurrency Investment:

Security concerns and regulatory uncertainty remain the most prominent risk factors, as indicated by the responses. A significant portion of respondents hold a neutral stance towards the regulatory environment surrounding cryptocurrencies, while a considerable number perceive it negatively 20.4%. Other significant risk factors include high volatility and lack of liquidity, highlighting the multifaceted challenges and uncertainties associated with cryptocurrency investments.

6.2.2.2 Perceptions of Mainstream Adoption and Regulatory Environment:

Many respondents, 59.3%, expressed a neutral stance regarding the future mainstream adoption of cryptocurrencies in financial markets, indicating uncertainty or indecision. Regarding the regulatory environment, a notable portion of respondents, 53.7%, hold a neutral stance, with varied perceptions ranging from negative, 20.4% to positive, 18.5%.

6.2.2.3 Impact of Cryptocurrencies on Traditional Financial Markets:

The data underscores a range of perspectives among respondents regarding the impact of cryptocurrencies on traditional financial markets, with the largest proportion, 63% holding a neutral stance. While some believe cryptocurrencies will have a complementary effect, 20.4%, others anticipate a disruptive effect, 13%, highlighting the diverse opinions on the relationship between cryptocurrencies and traditional financial systems.

6.2.3 Objective 3: To identify the primary factors that influence the cryptocurrency investment behaviour of people

6.2.3.1 Factors Influencing Cryptocurrency Investment Decisions:

The most cited factor influencing cryptocurrency investment decisions is the potential for high returns, with 55.6% of respondents indicating its significance. Technological innovation and the fear of missing out are also significant influences, mentioned by 35.2% and 25.9% of respondents respectively. Diversification of investment portfolio is mentioned by 25.9% of respondents, reflecting a desire to spread investment risk. Security concerns and regulatory uncertainty are the most prominent risk factors, with a considerable number of respondents expressing neutrality towards the regulatory environment surrounding cryptocurrencies, 53.7%.

6.2.3.2 Perceptions of Regulatory Environment:

Most respondents, 53.7%, hold a neutral stance towards cryptocurrency regulations, indicating a lack of strong sentiment either positively or negatively. However, a significant proportion perceive the regulatory environment negatively, 20.4%, while fewer respondents view it positively, 18.5%, highlighting varied opinions regarding cryptocurrency regulation.

6.2.3.3 Challenges in Cryptocurrency Investment:

Despite a significant portion of respondents expressing disinterest in cryptocurrency investment, the

majority reported rarely or never experiencing challenges in trading or using cryptocurrency. Among respondents actively involved in cryptocurrency investment or considering investment, a smaller number reported occasional challenges, suggesting a higher tolerance or the development of strategies to mitigate challenges.

6.2.3.4 Long-Term Expectations for Cryptocurrency Performance:

Majority of respondents adopted a neutral stance regarding the long-term performance of cryptocurrencies, 74.1%, suggesting uncertainty or indecision. However, a notable proportion expressed optimism about cryptocurrency performance, with 16.7% expecting bullish markets, while 9.3% anticipate bearish markets.

Overall, the data underscores the diverse range of factors influencing cryptocurrency investment behavior, including considerations of potential returns, technological innovation, regulatory environment, and perceived risks. Additionally, respondents exhibit varying opinions regarding the regulatory landscape and long-term performance outlook for cryptocurrencies.

6.2.4 Objective 4: To assess the prospective investment intention of people towards cryptocurrency in future

6.2.4.1 Impact of Government Regulation:

A significant majority of respondents, 79.6%, expressed increased interest in cryptocurrency if it were government regulated but remained intangible. This suggests that regulatory oversight could enhance individuals' confidence and interest in cryptocurrency. However, a minority stance, 20.4% exists, with respondents expressing that government regulation under these conditions would not impact their interest. This minority perspective may stem from concerns about potential limitations or a preference for decentralization.

6.2.4.2 Interest in Cryptocurrency Adoption:

Most respondents, 68.5%, indicated increased interest in cryptocurrency if tangible coins or notes were created by providers, with the availability of banks and ATMs, despite the absence of government regulation. This suggests that convenience and accessibility could drive interest in cryptocurrency adoption, even without government oversight. Conversely, a minority, 31.5%, expressed that this scenario would not increase their interest, potentially due to concerns about security or legitimacy without government regulation.

6.2.4.3 Attitudes Towards Recommending Cryptocurrency Investment:

The data shows a diverse range of attitudes towards recommending cryptocurrency investment to others. While the majority, 53.7% expressed uncertainty, a substantial portion, 20.4% showed reluctance in recommending cryptocurrency investment, indicating skepticism or concern about potential risks. A smaller number, 13%, expressed definite opposition to recommending cryptocurrency investment, while only a limited number, 11.1%, leaned towards recommending it, reflecting a minority with a more positive outlook.

Overall, the findings suggest that while regulatory factors and convenience/accessibility play significant roles in influencing individuals' prospective investment intentions towards cryptocurrency, there is also a varied range of attitudes and levels of confidence among respondents.

Summary and Conclusions

Cryptocurrency, with its decentralized nature and innovative blockchain technology, has emerged as a disruptive force in the global financial landscape. As digital assets like Bitcoin and Ethereum continue to capture headlines and investor attention, the need to understand the nuances of cryptocurrency awareness and attitudes become increasingly paramount. The study presents a nuanced exploration of attitudes, perceptions, and behaviors among the surveyed population offers valuable insights into the evolving landscape of digital currencies. In a world increasingly shaped by technological advancements and financial innovation, understanding the dynamics surrounding cryptocurrencies is crucial.

The findings reveal a range of perspectives, ranging from cautious optimism to skepticism, reflecting the complexity of sentiments towards this emerging asset class. Regarding mainstream adoption, majority of respondents appear uncertain about the future integration of cryptocurrencies into financial markets, with differing degrees of optimism and skepticism among respondents. Security concerns, regulatory uncertainty, high volatility, and liquidity issues emerge as prominent risk factors influencing respondents' attitudes towards cryptocurrency investment, with some expressing concerns about customer risk as well. While many respondents' express uncertainty regarding the mainstream adoption of cryptocurrencies and cite security concerns and regulatory uncertainty as key barriers, there is also a notable interest in the potential for high returns and technological innovation associated with digital assets.

Moreover, the varying levels of knowledge among respondents underscore the need for education and awareness initiatives to empower individuals to make informed decisions in the cryptocurrency space. Overall, the study highlights the multifaceted nature of cryptocurrency awareness and attitudes, emphasizing the importance of further research and dialogue to navigate the opportunities and challenges presented by this transformative technology in the global financial landscape.

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