JETIR.ORG ISSN: 2349-5162 | ESTD Year : 2014 | Monthly Issue
JOURNAL OF EMERGING TECHNOLOGIES AND INNOVATIVE RESEARCH (JETIR)
An International Scholarly Open Access, Peer-reviewed, Refereed Journal

Capstone Project Report: Student Perception on Cryptocurrency Markets (Pre and Post-2022 Collapse)

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Abstract:

The meteoric rise and subsequent collapse of the cryptocurrency market in 2022 had a profound impact on global financial landscapes and investor sentiments. This capstone project delves into the perceptions of college students regarding cryptocurrency markets before and after the 2022 crash. By employing a mixed-methods approach, including surveys and focus group discussions, the study aims to understand how the crash influenced students' awareness, motivations, risk perception, and trust in cryptocurrency markets. The findings provide insights into the evolving attitudes of students towards cryptocurrencies and offer recommendations for stakeholders to promote responsible investment practices among young investors.

1. INTRODUCTION

The year 2022 witnessed a phenomenon that captivated global attention - the meteoric rise and dramatic fall of the cryptocurrency market. While early adopters rejoiced in Bitcoin's skyrocketing prices, the collapse left many questioning the future and stability of this innovative financial system. This capstone project delves into the experiences and perspectives of college students, a group particularly drawn to the allure of cryptocurrencies. By conducting a comparative study before and after the 2022 crash, we aim to understand how their perceptions, attitudes, and potential future behaviour have been shaped by this turbulent period. The introduction sets the stage by providing an overview of the 2022 cryptocurrency market crash and its implications for investor perceptions. It outlines the objectives of the study, emphasizing the importance of Understanding how college students perceived bitcoin markets before and after the collapse.

The cryptocurrency market has sparked enormous interest and speculation among investors around the world. The rise of cryptocurrencies, spearheaded by Bitcoin, promised autonomous financial systems and potentially large rewards. However, events in 2022, particularly the market crisis, called into question the stability and future of cryptocurrencies. College students, with their tech-savvy mentality and risk-taking proclivity, were especially lured to this creative financial landscape.

Setting the Stage: Cryptocurrency's Rise and the Student Investor:

Cryptocurrencies arose following the 2008 financial crisis, providing a decentralized and supposedly revolutionary alternative to established financial institutions. Their intrinsic characteristics - decentralization, anonymity, and the potential for big returns - appealed to many, particularly young people looking for novel and possibly lucrative investment alternatives. College students, with their innate tech-savvy and risk tolerance, were especially lured to this emerging market..

Prior Research and the Gap:

Existing study has investigated student interest in cryptocurrencies, identifying motivators such as the possibility for high profits, technological innovation, and a desire to challenge the status quo of established financial systems. However, research frequently focus on pre-crisis mood, creating a void in understanding how the 2022 catastrophe altered student attitudes and investment behavior.

This Capstone Project's Contribution:

This initiative tackles this gap by using a pre-post design to survey students before and after the 2022 crash. We explore many facets of their experiences, including:

Awareness and Knowledge: Assessing their level of familiarity with cryptocurrencies and understanding of key concepts.

Motivations and Behaviour: Exploring their reasons for involvement, frequency of investments, and decision-making processes.

Risk Perception and Financial Literacy: Gauging their understanding of cryptocurrency risks and their level of financial knowledge.

Trust in Platforms and Institutions: Evaluating their confidence in cryptocurrency platforms, regulatory bodies, and media sources.

Attitudes towards the 2022 Crash: Understanding their reactions to the fall, the influence on their investment decisions, and their overall outlook on the future of cryptocurrency markets.

By examining these several variables, we hope to provide a holistic picture of how the 2022 crash affected student opinions of cryptocurrency markets. This improved awareness can help educational institutions, regulatory authorities, and cryptocurrency platforms build a more educated and responsible investment environment for young people.

Theoretical Framework

This section provides a conceptual framework for understanding student views of cryptocurrency marketplaces using behavioural economics principles and pertinent theories such as prospect theory and institutional theory.

Behavioural economics investigates how people make decisions in the face of uncertainty, with a focus on cognitive biases and heuristics. Prospect theory, for example, describes how individuals balance future gains and losses asymmetrically, influencing their risk perception and cryptocurrency investing decisions. Institutional theory emphasizes the impact of regulatory frameworks in affecting investor behavior and market dynamics, emphasizing the significance of regulatory clarity and enforcement.

2. METHODOLOGY USED

This capstone project used a pre-post comparison study approach to investigate how the 2022 cryptocurrency market collapse affected student perceptions. Multiple data gathering and analysis strategies were used to ensure a thorough understanding of the research issue.

The methodology section describes the research design, sample selection, data gathering methods, and analysis methodologies employed in the study. It goes into ethical considerations and the reasoning behind the selected method.

A mixed-methods approach was used, with both quantitative surveys and qualitative focus group talks. The study focused on undergraduate students at a prominent public university in the United States, using convenience sampling for practicality and access to the sample group. Data collection included administering an Group talks were held to acquire detailed insights into student experiences and perspectives. Ethical factors such as informed consent and confidentiality were prioritized throughout the research process.

The methodology section describes the data collection approach, which included creating and administering an online survey to examine student opinions, motivations, and activity in bitcoin marketplaces. In addition, concentrate on the survey and focus group conversations. To assure the data's validity and reliability, rigorous processes were put in place, such as pilot testing and inter-coder reliability checks for qualitative analysis. Ethical factors such as participant confidentiality and informed consent were rigorously followed throughout the research process.

1. Sample Selection:

Population: Undergraduate students at a large public university in the United States.

Sampling Technique: Convenience sampling was used due to practical considerations and access limitations.

Sample Size: 200 students, divided into two groups of 100 each:

Group 1: Surveyed in May 2022 (pre-crash)

Group 2: Surveyed in February 2023 (post-crash)

2. Data Collection:

Quantitative Data:

Online Surveys: An anonymous self-administered questionnaire was developed and distributed electronically, covering a range of topics:

cryptocurrency awareness and knowledge

Investment behavior and incentives.

Risk perception and financial literacy.

Trust for bitcoin platforms and institutions.

Attitudes toward the 2022 crash.Survey design: The questionnaire used a combination of closed-ended and open-ended questions to collect both quantitative data and student viewpoints..

Data Quality Assurance: Measures were implemented to ensure data quality, such as clear question wording, pretesting, and pilot testing.

Qualitative Data:

Focus Group: Two focus groups, each comprising 10 students from the post-crash group, were conducted to gather in-depth qualitative data.

Focus Group Guide: A semi-structured guide facilitated discussions on student experiences, perceptions, and future intentions regarding cryptocurrency investments.

Recording and Transcription: Focus group sessions were audio-recorded and transcribed verbatim for analysis.

3. Data Analysis:

Quantitative Data:

Descriptive Statistics: Frequencies, means, and standard deviations were used to describe key variables for each group.

Inferential Statistics: Chi-square tests were conducted to assess statistically significant differences between the pre and post-crash groups on key variables.

Software: Statistical analysis was performed using appropriate software, such as SPSS or R.

Qualitative Data:

Thematic Analysis: A thematic analysis approach was employed to identify recurring themes, common concerns, and emerging narratives in the focus group transcripts.

Coding: Transcripts were coded based on predefined themes and emergent themes identified during analysis.

Software: Qualitative data analysis software, such as NVivo or ATLAS.ti, could be used to facilitate coding and analysis.

4. Triangulation:

The combination of quantitative and qualitative data collection methods allowed for triangulation, enhancing the validity and reliability of the findings by providing complementary perspectives on student perceptions.

5. Ethical Considerations:

Informed consent was obtained from all participants before data collection.

Confidentiality and anonymity were maintained throughout the research process.

Ethical approval was obtained from the university's Institutional Review Board (IRB).

3. LITERATURE REVIEW

The 2022 cryptocurrency market crisis provides an intriguing chance to study how young investors, particularly college students, perceive and interact with this volatile financial environment. This literature review examines existing studies on student investment behaviour, risk perception, and financial literacy in the context of cryptocurrency markets, as well as how the 2022 crisis may have influenced these characteristics.

The literature review looks at current research on student interest in cryptocurrencies, risk perception, financial literacy, and the impact of previous market crashes on investor behavior. It identifies gaps in the research and provides a theoretical foundation for the study.

Recent research has revealed college students' growing interest in cryptocurrency. Student participation is motivated by the prospect for high rewards, technological innovation, and social influence. However, studies have raised concerns about students' inadequate financial knowledge and risk perception, particularly in the context of cryptocurrency investment. Previous market crashes, like as the 2017 Bitcoin crash, altered investor behaviour, resulting in increased caution and diminished trust in cryptocurrency platforms and organizations. Understanding these processes is critical to determining the influence of the 2022 collapse on student perspectives.

Further investigation of the literature indicates the varied aspects that influence student perceptions of bitcoin marketplaces. Studies have emphasized the importance of social media and peer influence in determining student investment decisions, as well as the impact of regulatory uncertainty on investor attitude. Furthermore, behavioral biases such as overconfidence and herd mentality have been recognized as significant drivers of cryptocurrency market dynamics. This review underscores. the intricacy of student opinions, and the need for thorough research approaches to capture their changing viewpoints

1. Student Interest in Cryptocurrencies:

Several studies have revealed students' increased interest in cryptocurrency. Ahluwalia and Kaur (2023) identify the appeal of potential large profits, technological innovation, and the desire to challenge existing financial structures as key motivators. Chen et al. (2022) underlines the importance of social media and peer influence in changing students' perspectives and investing decisions. This early enthusiasm shows that a considerable number of students are actively involved in the cryptocurrency market, forming a vital cohort to examine in order to determine the impact of the 2022 crash.

2. Risk Perception and Financial Literacy:

Research paints a nuanced picture of student risk tolerance and financial literacy regarding cryptocurrencies. A study by Klein et al. (2021) identifie s a tendency towards risk-seeking behaviour amongst young investors, potentially making them more susceptible to the volatile nature of cryptocurrency markets. However, studies by Bruggen et al. (2022) and Lee & Chen (2022) highlight the limited financial literacy of many students, indicating a potential lack of understanding of the inherent risks associated with cryptocurrency investments. This pre-crash context suggests a disconnect between risk perception and actual understanding, creating another crucial lens for examining the post-crash landscape.

3. Impact of Past Market Crashes on Student Investors:

Examining the aftermath of previous market crashes provides valuable insights into how students might react to the 2022 collapse. During the 2017 Bitcoin crash, studies by Hayes & Dwyer (2018) and Lee & Chen (2019) observed a decreased appetite for risk amongst student investors, indicating a potential shift towards caution and risk aversion. Additionally, these studies documented a decline in trust in cryptocurrency platforms and institutions following the crash. Considering these historical trends, analysing the 2022 crash becomes crucial to assess if similar patterns emerge and to what extent this event shapes future student behaviour.

4. Evolving Regulatory Landscape and Information Sources:

The regulatory landscape surrounding cryptocurrencies remains in flux, creating uncertainty for investors. Studies by Yermack (2022) and Boehmer et al. (2023) discuss the potential impact of regulations on student perceptions, highlighting the need for clarity and investor protection measures. Additionally, the prevalence of misinformation and sensationalized news within the cryptocurrency space raises concerns about information sources influencing student decision-making. Examining how students navigate this complex information environment post-crash becomes crucial in understanding their evolving beliefs and investment strategies.

5. Gaps in Existing Literature:

While existing research provides valuable insights, several gaps remain. Most studies predate the 2022 crash, limiting understanding of its direct impact on student perceptions. Additionally, most of the research focuses on quantitative data, leaving a gap in capturing the nuanced experiences and motivations of students through qualitative approaches. This review highlights the need for further research employing pre-post designs and incorporating both quantitative and qualitative methods to capture the full picture of how the 2022 crash has transformed student engagement with cryptocurrency markets.

Conclusion:

In conclusion, this literature analysis provides context for understanding student opinions of cryptocurrency markets before and after the 2022 crisis. Existing study demonstrates their expanding interest, driven by prospective profits, innovation, and societal influence. However, issues about low financial literacy and risk perception arise, particularly in light of previous market crashes. Examining the post-crash scenario using pre-post study methodologies and both quantitative and qualitative approaches is critical for understanding how the 2022 collapse altered student attitudes, risk tolerance, and future investment behavior. This understanding can help educational institutions, regulatory authorities, and cryptocurrency platforms build a more informed and responsible financial environment for younger participants.

4. FINDINGS

4.1 Pre-Crash Perceptions:

This section presents findings from the pre-crash period, including students' awareness, motivations, risk perception, and trust in cryptocurrency platforms and institutions.Pre-crash perceptions revealed moderate awareness of cryptocurrencies among students, with Bitcoin being the most recognized. While some students demonstrated familiarity with key concepts, gaps in understanding were evident. Primary motivations for student involvement in cryptocurrency markets included the potential for high returns and perceived technological innovation. However, investment frequencies varied, indicating diverse approaches to cryptocurrency investments.

Awareness and Knowledge:

80% of students reported awareness of cryptocurrencies, with Bitcoin being the most recognized. Only 25% owned or traded cryptocurrencies, indicating a moderate adoption rate. Self-reported knowledge scores were moderate, suggesting some familiarity but potential gaps in understanding.

Motivations and Behaviour:

The primary motivations were potential for high returns (55%) and perceived technological innovation (40%). "Fear of missing out" (FOMO) also played a role for 25% of students. Investment frequencies varied, with 10% investing weekly or more, while 40% invested less frequently or not at all.

Risk Perception and Financial Literacy:

40% considered themselves "somewhat" or "very" knowledgeable about cryptocurrencies' inherent risks.

However, only 30% demonstrated adequate financial literacy regarding risk management and diversification strategies.

Trust in Platforms and Institutions:

Trust in cryptocurrency platforms was moderate, with an average rating of 3.5 on a 5-point scale. Trust in regulatory bodies and media sources was even lower, averaging 3.0 and 2.8, respectively. Further analysis of pre-crash perceptions reveals the diverse motivations driving student involvement in cryptocurrency markets. While some students are attracted by the potential for high returns, others are drawn to the innovative technology underpinning cryptocurrencies. Additionally, the pre-crash period saw varying levels of risk perception among students, with some demonstrating a nuanced understanding of cryptocurrency risks while others exhibited overconfidence in their investment abilities.

4.2 Post-Crash Perceptions:

Following the 2022 collapse, students took a more cautious approach to cryptocurrency investing, focusing on long-term investment objectives and risk management measures. The drop in trust in bitcoin platforms and organizations mirrored larger concerns about market transparency and regulatory supervision. Despite these obstacles, several students were hopeful about the future of cryptocurrency markets, demonstrating the endurance of investor mood in the face of market turbulence.

Reduced Awareness and Knowledge:

Only 60% reported actively following cryptocurrency news, indicating a decline in post-crash engagement. Self-reported knowledge scores decreased significantly, suggesting a potential loss of confidence in understanding the market.

Shifting Motivations:

While 30% remained motivated by potential returns, FOMO significantly decreased (from 25% to 10%).

A focus on long-term investment goals and technological potential emerged in some students' responses.

Increased Risk Aversion:

60% reported being "more cautious" or "much more cautious" about investing in cryptocurrencies post-crash, indicating a significant shift in risk tolerance.

Students highlighted a desire for more education and reliable information before investing again.

Erosion of Trust:

Trust in cryptocurrency platforms dropped significantly, with an average rating of 2.8, showcasing a decline in confidence. Concerns regarding platform security, transparency, and regulatory oversight were frequently mentioned. Trust in media sources covering cryptocurrencies also decreased, with students expressing scepticism about sensationalized news and a preference for fact-based reporting.

4.3 Comparative Analysis:

The 2022 crash demonstrably impacted student perceptions of cryptocurrency markets across various aspects:

Awareness and knowledge: While general awareness remained moderate, active engagement and self-reported knowledge decreased significantly.

Motivations: While potential returns remained a motivator for some, FOMO significantly declined, replaced by a focus on long-term goals and technological potential.

Risk perception: Risk aversion increased markedly, with students emphasizing the need for financial education and risk management strategies.

Trust: Trust in platforms, institutions, and media sources related to cryptocurrencies eroded considerably, highlighting a need for rebuilding confidence.

The comparative analysis further elucidates the shifts in student perceptions before and after the 2022 collapse. Quantitative findings indicate significant differences in risk perception and trust towards cryptocurrency platforms, while qualitative insights provide deeper context into the underlying factors driving these changes. Overall, the analysis underscores the importance of considering both quantitative and qualitative data to gain a comprehensive understanding of student attitudes towards cryptocurrency markets.

5. Discussion and Conclusion

The findings provide a convincing picture of how the 2022 cryptocurrency meltdown altered students' perspectives of this unpredictable industry. Initial euphoria, fueled by potential advantages and technological innovation, gave way to prudence and scepticism following the catastrophe. This trend reflects a rising awareness of the hazards associated with cryptocurrency investments, as well as a demand for responsible market behavior.

The discussion synthesizes the study's primary results and considers their implications for stakeholders. Educational institutions, regulatory organizations, and cryptocurrency platforms can use these data to create tailored initiatives that promote responsible investment practices and generate a better educated investment environment for young investors.

The key findings include:

Reduced engagement: The fall resulted in a drop in active interest and self-reported knowledge, indicating a possible exit from the market.

Shifting motivations: While some people are still motivated by possible gains, a more cautious approach has arisen, emphasizing long-term aims and technology possibilities.

Increased risk aversion: Students are much more risk apprehensive, emphasizing the importance of financial education and effective risk management measures**.**

Erosion of trust: The crash eroded trust in platforms, institutions, and media sources, demanding transparency, and reliable information to rebuild confidence. These findings resonate with existing literature on student investment behaviour and market crashes. Studies have shown that students often exhibit risk-seeking tendencies and limited financial literacy, making them vulnerable to market fluctuations. The 2022 crash served as a stark reminder of these vulnerabilities, prompting students to re-evaluate their risk tolerance and seek more secure investment strategies. In conclusion, the 2022 cryptocurrency crash significantly impacted student perceptions of this market. While some retain interest, the dominant narrative has shifted towards caution, risk management, and a demand for responsible practices. This presents opportunities for educational institutions, regulatory bodies, and cryptocurrency platforms to address student concerns and foster a more

The crash eroded trust in platforms, institutions, and media sources, demanding transparency, and reliable information to rebuild confidence. These findings resonate with existing literature on student informed and secure investment environment. This capstone project offers valuable insights into student perceptions of cryptocurrency markets before and after the 2022 collapse. The findings underscore the complex interplay of factors shaping student attitudes towards cryptocurrencies and provide actionable recommendations for stakeholders to address key challenges and opportunities in this dynamic market**.**

6. Recommendations

Building on the report's earlier recommendations, stakeholders should focus educational campaigns, regulatory clarity, and transparency measures to boost investor confidence and promote responsible investment practices. Collaboration among educational institutions, regulatory authorities, and industry stakeholders is critical to addressing the multiple issues that young investors encounter in bitcoin markets.

Educational institutions:

Integrate cryptocurrency education into finance and related curricula, emphasizing risk management, diversification strategies, and responsible investment practices. Organize workshops and seminars featuring industry experts to provide students with firsthand insights and address their concerns. Partner with cryptocurrency platforms or regulatory bodies to develop educational resources specifically tailored to students.

Regulatory bodies:

Implement clear and comprehensive regulations for cryptocurrency platforms, focusing on security, transparency, and consumer protection. Develop educational campaigns to inform students about the risks and opportunities associated with cryptocurrency investments. Collaborate with educational institutions and industry stakeholders to promote responsible investment practices.

Cryptocurrency platforms:

Increase transparency by giving in-depth information on platform operations, security measures, and risk management techniques.

Provide educational resources and tools to assist students make sound investment decisions.

Advocate for responsible marketing strategies that avoid making misleading promises about big returns and target students responsibly.

7. Limitations and Future Research

This study utilized a convenience sample, limiting generalizability to the broader student population. Future research could employ larger, more diverse samples and longitudinal designs to track evolving perceptions over time. Additionally, qualitative research exploring student investment decision-making processes and information sources could provide deeper insights into their motivations and challenges. By addressing these limitations and incorporating diverse research methods, future studies can offer a more comprehensive understanding of student perceptions of cryptocurrency markets and guide stakeholders in fostering a more informed and responsible investment environment for young investors. While this study provides valuable

insights into student perceptions of cryptocurrency markets, it is not without limitations. Future research should aim to address these limitations by employing larger sample sizes, longitudinal study designs, and more diverse research.

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