International Journal of Scientific Research and Engineering Development-– Volume 7 Issue 3, May-June 2024
Available at www.ijsred.com

RESEARCH ARTICLE OPEN ACCESS

Study of Stock Market Volatile Concept- Behavioural Aspect

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Abstract:
The study aims to explore how human emotions, biases, and decision-making processes influence the fluctuations in stock prices. By analyzing investor sentiment, herding behavior, anchoring bias, and other relevant factors, this research sheds light on the psychological aspects that contribute to market volatility. The findings of this study have significant implications for investors, financial institutions, and policymakers in understanding and managing stock market risks. Through an in-depth analysis of behavioral concepts, this research paper provides valuable insights into the dynamics of stock market volatility and offers potential strategies to mitigate its effects.

Keywords **—Volatility, Herding Behavior,overconfidence, psychology, dynamic market**

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I. INTRODUCTION

Stock market volatility is a significant area of interest for investors, policymakers, and researchers alike. While traditional financial theories attribute market volatility to rational factors such as economic indicators and company performance, behavioural finance explores the influence of psychological factors on market dynamics. This research aims to delve into the behavioural aspects of stock market volatility to better understand the underlying drivers and implications.

The evolution of India's stock market within the framework of economic liberalization underscores its pivotal role in shaping the country's corporate landscape. Beyond serving as a conduit for mobilizing financial resources, the stock market assumes multifaceted functions crucial for sustaining economic dynamism.It acts as a vital source of capital infusion for Indian businesses, allowing entrepreneurs and governmental entities direct access to funds from a diverse pool of investors. This direct channelling of capital facilitates the realization of strategic initiatives, fosters innovation, and propels growth across various sectors of the economy. The stock market functions as a liquidity provider, ensuring that investors have the flexibility to buy and sell securities with relative ease. This liquidity not only enhances market efficiency but also instils confidence among investors, fostering greater participation and investment activity.

II. OBJECTIVE OF THE STUDY:

The objective of studying the behavioural concept of stock market volatility is to understand how human emotions, biases, and decision-making processes influence market fluctuations. By examining investor behaviour and psychology, researchers aim to uncover patterns and trends that can help predict and explain market volatility. This knowledge can be used to develop strategies and tools that mitigate risks and enhance investment decision-making. It's fascinating how our own behaviours can impact the ups and downs of the stock market. One aspect that researchers examine is investor sentiment. This refers to the overall mood or attitude of market participants towards a particular stock or the market as a whole. Positive sentiment can lead to increased buying activity and potentially drive stock prices higher, while negative sentiment can trigger selling and contribute to price declines.

III. RESEARCH METHODOLOGY

The bivariate models appeared accomplish way better in most cases, compared with the

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univariate models. MGARCH models may be utilized for estimating. Multivariate GARCH demonstrating conveyed a reasonable but stingy estimation of the change framework, affirming its inspiration. Be that as it may, by examining the relative estimating exactness of the two definitions, BEKK and DCC, it seems to be concluded that the determining execution of the MGARCH models was not continuously palatable. By comparing it with the other multivariate GARCH models, BEKK-GARCH demonstrate was comparatively superior and adaptable but it required as well numerous parameters for different time series. Conversely, for the range of determining, the DCC-GARCH demonstrate was stingier. In this respect, it was altogether fundamental to adjust miserliness and adaptability when demonstrating multivariate GARCH models.

The current orderly audit has distinguished 50 inquire about articles for ponders on noteworthy perspectives of stock advertise return and instability, audit sorts, and GARCH demonstrate examination. This paper taken note that all the ponders in this survey utilized an investigational investigate strategy. A writing audit is fundamental for researchers, scholastics, and professionals. Be that as it may, evaluating different sorts of writing audits can be challenging.

IV. CHALLENGES IN THE STOCK MARKET:

A. Herd Mentality

Investors often have tendency to follow the crowd and make decisions based on the actions of others. This herd mentality can lead to exaggerated market movements and create bubbles or crashes.

B. Overconfidence

Sometimes, investors can be overly confident in their abilities and underestimate the risks involved. This can lead to excessive trading, poor decision-making, and ultimately, financial losses.

C. Loss Aversion

Many investors have a strong aversion to losses and are more sensitive to the pain of losing money than the pleasure of making gains. This can result in holding onto losing investments for too long or selling winners too quickly, impacting overall portfolio performance.

D. Anchoring Bias

Investors may anchor their decisions to a specific reference point, such as the price they paid for a stock. This bias can prevent them from adjusting their investment strategy based on new information, leading to missed opportunities or holding onto underperforming assets.

E. Confirmation Bias

Investors often seek information that confirms their existing beliefs or biases, while disregarding contradictory information. This can limit their ability to make objective and well-informed investment decisions.

F. Short-Term Focus

Behavioral biases can lead investors to have a short-term focus and prioritize immediate gains over long-term investment goals. This can result in impulsive trading and hinder the benefits of a patient and disciplined approach.

V. CONCLUSION

The stock market is indeed a mechanism for mitigating risk through diversification, allowing individuals to spread their investments across multiple entities. This pooling of investments into a large bucket offers the common man an opportunity to participate in a diversified, professionally managed portfolio at a relatively low cost. However, beyond the basic principles of risk mitigation and diversification, the stock market is a complex ecosystem influenced by various factors, including behavioural aspects. One critical aspect of stock market behaviour is the phenomenon of wild speculation, as observed in the Indian stock market. Speculation refers to the practice of buying and selling securities based on short-term market movements rather than underlying fundamentals.

This behaviour can introduce volatility and unpredictability into the market, impacting investor sentiment and decision-making. Risk, while not directly measurable or quantifiable, is often assessed based on historic volatility.

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Volatility refers to the degree of variation in the price of a financial instrument over time. High volatility implies greater uncertainty and risk, while low volatility suggests a more stable market environment. Understanding and managing risk is essential for investors to make informed decisions and navigate market fluctuations effectively. Stock market movements are influenced by a myriad of factors, including broad money supply, inflation, credit-to-deposit ratio (C/D ratio), fiscal deficit, and political stability. Changes in these macroeconomic indicators can impact investor confidence and market sentiment, leading to fluctuations in stock prices.

VI. LIMITATION

A. *Data Availability and Reliability*

While historical data is crucial for studying behavioural aspects of market volatility, obtaining reliable data on investor sentiment, cognitive biases, and herd behaviours can be problematic. Surveys and sentiment indices may suffer from sample biases or lack of representativeness, while behavioural biases may manifest differently in various market environments, further complicating data collection and analysis.

B. *Overlapping Factors*

Behavioural aspects of market volatility do not operate in isolation butinteract with other fundamental and technical factors. Disentangling the specific impact ofinvestor behaviour from these overlapping factors can be challenging. For instance, while herdbehaviour may amplify price movements, these movements may also be driven by changes ineconomic indicators or corporate earnings, making it difficult to attribute volatility solely tobehaviouralfactors.

C. *Limited Policy Implications*

While understanding behavioural aspects of market volatility isessential for stakeholders such as investors, regulators, and policymakers, translating the oretical insights into action able policies can be challenging. Behavioural interventions may have unintended consequences or limited effectiveness in practice, particularly in complex and dynamic market environments. Additionally, implementing regulatory measures to mitigate behavioural biases may face resistance from market participants or be difficult to enforce effectively.

VII. DIRECTIONS OF FUTURE RESEARCH

A. *Big Data and Machine Learning Approaches*

The availability of vast amounts of financial data presents opportunities for leveraging big data analytics and machine learning algorithms to study behavioural aspects of market volatility. By analysing large datasets of investor sentiment, social media activity, and market transactions, researchers can identify patterns, predict market movements, and uncover hidden relationships between behavioural factors and volatility.

B. *Cross-disciplinary Collaboration*

Future research can benefit from cross-disciplinary collaboration between finance, psychology, economics, sociology, and other fields. By bringing together expertise from diverse disciplines, researchers can gain new perspectives on market behaviour, develop innovative research methodologies, and generate novel insights into the drivers of market volatility

VIII. SUGGESTIONS

A. *Increase in Market Timing (Trading Hours)*

To align Indian markets with those of the international markets & to facilitate the assimilation of any economic information that flow in from other global markets, discussions have been going on to increase market timings from 9 am to 5 pm. At present, trading hours at stock exchanges are between 9.55 a. m and 3.30 p m. The extension of market hours may help in effectively assimilating information and thereby make Indian markets efficient in terms of better price discovery, reduction in volatility and impact cost.

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B. Pre-Trading Session

Pre-trading/Pre-open session has been introduced by SEBI in July 2010 to discover opening price. Its main motive is to eliminate/ minimize opening volatility on prices of securities. The opening price will be the equilibrium price based on the demand & supply of the security and not based on the price of the first trade for the security. Thus, it allows for overnight news in securities to be suitably reacted in the opening price. The pre-open session is of the duration of 15 minutes i.e. from 9:00 am to 9:15 am. The pre-open session is comprised of Order Collection period and Order Matching period. After completion of order matching there shall be silent period to facilitate the transition from pre-open session to the normal market. All Securities forming part of BSE Sensex and NSE Nifty are subject to pre-Trading Session.

C. Circuit Breakers

A system of coordinated trading habits and/or price limits on equity markets and equity derivative markets designed to provide cooling off period and avert panic selling during large, industry market declines. It is a measure used by some major stock and commodities exchanges to restrict trading temporary when market rise or fall too far, too fast. the exchange has implemented index-based market rise circuit breakers in company rolling settlement with from July 02, 2001. In addition to circuit breakers, price band are also applicable on individual securities. The index-based market-wide circuit breaker system applies at 3 stages of the index movement, either way viz. at 10%, 15% and 20%.

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