E-ISSN: 2708-4523
P-ISSN: 2708-4515
AJMC 2025; SP-6(2): 01-05

www.allcommercejournal.com
Received: 06-05-2025
Accepted: 07-06-2025

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Two-Days National Conference on Multidisciplinary Approaches for Innovation and Sustainability: Global solution for contemporary Challenges-NCMIS (DPG Degree College: 17 th-18th 2025)

The impact of social media on stock prices: Analysing meme stocks and viral trends

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DOI: https://www.doi.org/10.22271/27084515.2025.v6.i2Sa.620

Abstract
This study investigates the impact of social media on stock market movements, specifically how sentiment and activity on platforms such as Twitter, Reddit, and financial forums influence stock prices and trading volumes. Understanding social media's function in financial markets is critical, given its rising ubiquity as a source of information and a forum for investor discussion. The findings show a strong link between social media mood and stock market movements, with specific viral messages and high-activity periods on social media platforms having a considerable impact on stock prices and trading volumes. The importance of social media in financial markets is increasingly highlighted by this research. It suggests that investors and market analysts should incorporate social media activity into their decision-making processes.
The study adds to the literature by presenting empirical evidence on the impact of social media on stock market behavior and providing a methodological framework for future explorations in this field. It also emphasizes the necessity for regulatory bodies to oversee social media's influence on financial markets to ensure market integrity and safeguard investors.
In today's technology-driven society, the role and influence of social media are significantly varied across different sectors worldwide. One area affected by social media is the stock markets in both India and globally. The impact of social media can be analyzed by the number of individuals using these platforms and their interest in the stock market. The rise in internet usage has led to a surge in the popularity of social media. Social media serves as a crucial channel that connects people across India and the entire globe. Nowadays, the geographical borders of a nation do not confine the stock market and its investors. We can now view the entire world as both a market and a stock market. The global population makes this possible due to advancements in technology and its widespread adoption.

Keywords: Social media, stock price, financial market, stock market

Introduction
In recent years, researchers have increasingly focused on the significant influence of social media on stock market fluctuations. This topic has gained momentum due to the rapid evolution of both financial markets and communication technologies. Platforms like Twitter, Reddit, and Stocktwits have revolutionized the way individual investors access information and express their views. These platforms provide real-time updates on market developments and have enabled users to engage in "social trading", where smaller investors collaborate to shape market sentiment and influence stock prices.
A notable outcome of this trend is the emergence of “meme stocks”, where stock price movements are driven more by viral online enthusiasm than by traditional financial fundamentals. Companies such as GameStop and AMC Entertainment became focal points for online communities that used memes and coordinated buying efforts to dramatically increase share prices. This marked a shift in market dynamics, with online communities demonstrating the power to influence major financial outcomes.
Social media has also evolved into a space where competing narratives about stocks are formed and shared by professionals, influencers, and even celebrities. This constant and rapid flow of information can lead to market inefficiencies and increased volatility, often outpacing the ability of traditional analysts and regulatory bodies to respond. The amplification of information both accurate and misleading can distort market behavior and

pose risks, especially for inexperienced investors. While social media has democratized access to market data and participation, it has also raised concerns. Critics argue that the fast spread of misinformation, potential for market manipulation, and prevalence of herd behavior may create unstable market conditions. These issues have prompted calls for improved investor education and more effective regulatory oversight.

Beyond the financial sphere, social media plays a broader role in shaping public discourse. In the United States and worldwide, people rely on social platforms for information related to politics, community news, business trends, and entertainment. Political figures, including former President Barack Obama and President Donald Trump, have famously used platforms like Twitter to communicate directly with the public, underscoring social media's growing influence in both policy and public perception.

As social media continues to attract younger users, financial institutions are adapting their strategies to engage with investors on these platforms. In an increasingly digital economy where investment decisions are closely tied to online narratives, understanding the intersection between social media and stock markets is crucial. This transformation represents both an opportunity and a challenge one that reshapes how modern markets operate and how future investors must navigate them.

Background

With the rapid development of social networks and the emergence of Internet finance, investors are paying more attention to social media platforms. Financial social platforms have become an effective channel for investors to Interact with others and gain insights into financial market trends. The massive Amounts of social media data available today can confer huge commercial and Academic value.

Social media helped in two ways to level the playing field for the household Investors. The first is through expedited news transmission with the popularity Of Internet platforms like Facebook, Twitter in the western hemisphere and Weixin, Weibo in China. These availed household investors to financial Information that was previously available only through dedicated financial Channels. The second is through peer to peer social investing platforms that seek to disrupt the investment landscape by improving financial literacy.

The swift expansion of social media has changed the way individuals communicate, gather information, and make decisions. In finance, social media platforms offer users timely access to market updates, opinions, and investment guidance, which can sway investor behavior and possibly affect stock prices. The link between social media sentiment and stock prices has emerged as an increasingly vital area of research, as investors and financial analysts aim to leverage social media to predict market movements. Although previous studies have shown the potential influence of investor sentiment on stock returns and other financial aspects, there remains a limited understanding of the specific processes through which social media sentiment affects stock prices. Additionally, the continually changing landscape of social media platforms and their ability to amplify investor sentiment necessitates ongoing research efforts to keep pace with developments in this field.

Objectives

- To investigate the demographic characteristics of stock market investors regarding their use and adoption of social media platforms.
- To explore the risks and challenges that social media presents to investors, despite its advantages.
- To analyze the factors that influence investors' use of social media in their investment decision-making process.
- To evaluate the level of awareness among investors regarding social media.

Research methodology

This research focuses on investment pattern and impact of social media on investment decision of individuals investing in the stock market. The study is descriptive and analytical in nature. Secondary data has gathered from a range of accessible websites, books, journals, articles, electronic databases, newspapers, periodicals, case studies, industry reports, as well as other published and unpublished materials to acquire information. To conduct this study data has been collected from various sources including reputed journals, research papers, published reports, websites etc. All the paper taken into consideration for literature review part has good number of citation.

Importance of the study

This research aims to bridge the existing gaps in the literature by investigating how social media sentiment affects stock prices within the technology sector, both in India and around the world. By concentrating on a particular industry, this study can offer insights into the distinctive dynamics and connections between social media sentiment and stock price fluctuations in the technology field.

Additionally, this research will enhance the understanding of how social media sentiment influences stock prices in emerging markets like India, where the use of social media is rapidly increasing, and its impact on investor behavior is becoming increasingly important. This paper can assist investors, financial analysts, and regulators in better understanding the potential risks and opportunities related to utilizing social media for financial decision-making in these emerging markets.

Ultimately, this study can provide important insights for market participants who are interested in using social media sentiment to guide their investment approaches. By analysing the relationship between social media sentiment and stock prices, this research can aid investors in recognizing potential market trends and formulating more informed trading strategies based on the analysis of social media sentiment.

Literature review

The main objective of the literature search is to refine our research focus on how social media affects investors' decisions, particularly the connection between information and investment choices, the behavior of online communities regarding investments, and the influence of a company's image on investment decisions. Certain key terms integral to the study include 'social media', 'invest', 'behavioural finance', and 'investor sentiment', which we have identified as relevant searches for our research.

A review paper discusses the factors related to social media use in investment decision-making.

- In January 2019, Dr. S Kavitha and R Bhuvaneswari [2] conducted a study titled "A study on factors involving the usage of social media on investment decision making with reference to investors of selected stock broking houses in Coimbatore." The research primarily aimed to examine various factors influencing equity investors in the Coimbatore District of Tamil Nadu, India, including company news, industry performance, market updates, economic conditions, and investor sentiment, that encourage the use of social media.

- Naresh Reddy Bollampelly, (August 2016) [5], in his research titled "Understanding the role of social media in investor reactions," focused on exploring the reasons behind investor behavior and how to effectively manage such scenarios. Additionally, the survey gathered insights from investors across various countries, age groups, and levels of investment experience. When asked about their news sources, fewer than 5% reported using traditional outlets, while 55% obtained information from financial news websites, and 40% relied on social media platforms, indicating a preference for non-traditional sources.
- Dr. Sahel Ali Al Atoom, Dr. Khaled Khalaf Alafi, and Dr. Mazen Mohammad Al-Fedawi (2021) [1] in their study titled "The effect of social media on making investment decisions for investors in Amman Financial Market," aimed to assess the influence of social media on investment decision-making within the Amman Financial Market. Their research included an evaluation of relevant economic and financial data disseminated through new media, identified key new media platforms that shape investor choices, and assessed the impact of these platforms on decision-making processes in the market.
- Ekta Ashokkumar Mistri and Dr. Gurudutta P Japee, (July-September 2020) [3] in their investigation titled "Analysing the role of social media in investment decision with special reference to South Gujarat," focused on examining the influence of social media on investment choices, particularly the changes in investment behavior following the increased presence of social media. Furthermore, their findings led to the rejection of the null hypothesis, concluding that there is a significant correlation between the gender of respondents and their frequency of social media use.
- Nofer M, (2014) [9] in the dissertation titled "The Value of Social Media for Predicting Stock Returns Preconditions, Instruments and Performance Analysis" examined how social media can be utilized to forecast stock returns while addressing the necessary conditions, tools, and performance metrics involved. Nofer found that the variety of information available creates opportunities to access diverse knowledge sources, which enhances problem-solving capabilities and overall performance. Additionally, variations in preferences or viewpoints among group members (such as those stemming from gender differences) help reduce collective errors and lead estimates to align more closely with accurate values.
- Jiao P, Veiga A and Walther A, (2016) explored the effects of traditional news media and social media coverage on stock market volatility and trading volumes in their paper titled "Social media, news media and the stock market". They found that the data on news media aligns with a model suggesting that some investors exhibit overconfidence when interpreting news. In contrast, the data regarding social media does not support the concept of rational markets.
- Examined the relationship between social media usage and stock prices in Indian firms in their paper "Social media usage vs. stock prices: An analysis of Indian firms". Their objective was to investigate whether a connection exists between social media activity and the stock prices of these companies. They concluded by emphasizing the degree to which a firm should prioritize investments in social media adoption strategies, marketing approaches, customer care initiatives, and similar efforts.
- Investigated the impact of social media on stock volatility in their paper "The influence of social media on stock volatility," developing a feature model that utilizes intelligence algorithms based on social media data from sources like Xueqiu.com in China, Sina Finance and Economics, Sina Weibo, and Oriental Fortune. They concluded that social factors, such as heightened attention to a stock's volatility, hold more significance than public sentiment. A prediction model was introduced that leverages social factors and public sentiment to forecast stock volatility.
- Gibson, Nya (2018), in her study "An Analysis of the Impact of Social Media Marketing on Individuals' Attitudes and Perceptions at NOVA Community College," aimed to shed light on how consumers engage with social media as a communication tool and how businesses can leverage this knowledge for successful marketing. Nya concluded that companies with a strong social media presence have the potential to significantly influence their overall revenue.
- In the paper titled "Social Media Impact on Household Investors and Their Stock Markets Participation," Eric, Tham (2018) [10] examined how social media influences household investors and their involvement in stock markets. The findings indicated that household engagement in stock markets relies on their confidence in social media, but this is contingent upon the existing economic fundamentals.

Data Analysis

Demographic trends in social media usage among investors

1. Age and Social Media Engagement

- Younger investors, particularly Millennials and Gen Z, are more inclined to use social media for investment information. A study indicates that nearly 80% of American Millennials and Gen Z investors relied on investment advice from social media outlets in 2023.

2. Gender Differences

- Men are more likely than women to use social media as an investment information source. Women tend to be more cautious, often seeking information from traditional sources or financial professionals.

3. Income and Investment Behavior:

- Investors with lower portfolio values are more likely to rely on social media for investment decisions, possibly due to the accessibility and cost-effectiveness of these platforms.

Influence of Social Media Platforms

1. Platform Preferences

- Different age groups show preferences for specific platforms:
- Gen Z investors often turn to TikTok and Instagram for financial information.
- Millennials primarily use Facebook as a source of advice.

2. Impact on Investment Decisions

- Social media platforms have a significant influence on investors' decisions, with many relying on advice from influencers or peer discussions. This trend is particularly strong among younger investors who value the immediacy and relatability of content on these platforms.

Behavioral Insights

1. Financial Literacy

- Investors using social media for investment decisions often have lower objective financial knowledge but higher subjective confidence in their understanding.

2. Risk Appetite

- Younger investors influenced by social media are more likely to engage in high-risk investments, such as cryptocurrencies or meme stocks, driven by trends and peer influence.

Implications for Financial Services

- Financial institutions and advisors should recognize the growing influence of social media on investment behaviors, especially among younger demographics.
- Developing engaging, informative, and accessible content on popular platforms can help bridge the gap between traditional financial advice and the evolving preferences of modern investors.
- Enhancing financial literacy through social media channels can empower investors to make more informed decisions and mitigate the risks associated with misinformation.

Risks & Challenges for Investors

- **Misinformation & hype:** Viral posts often spread unverified tips sometimes promoting speculative “meme stocks” or crypto without fundamentals. These posts can lead to impulsive decisions and losses
- **Pump-and-dump & market manipulation:** Fraudsters use bots and coordinated campaigns to inflate asset prices before offloading them, leaving retail investors with losses
- **Influencer bias and lack of accountability:** Many self-styled “finfluencers” have no fiduciary duty. Their motivations affiliation kickbacks, sponsorship, or popularity remain opaque. If advice fails investors suffer, while influencers are unaffected
- **Emotional herd behavior:** Fear-of-missing-out (FOMO), recency bias, and overconfidence bias are amplified in the social media echo chamber often fueling irrational buying and selling.
- **Regulatory & scam risks:** Regulators like the FCA (UK) and SEBI (India) issue advisories against fraudulent schemes promoted through WhatsApp, Telegram, Instagram, TikTok, etc.
- **Privacy and reputational risks:** Sharing personal or financial strategy data online exposes investors to identity theft, targeted scams, swaying tactics or worse severe emotional or social repercussions.

Key findings

- Social media plays a crucial role in influencing stock market investors.
- Social media has a notable effect on the investors in the stock market within the stud area.
- A significant correlation exists between social media and stock market investors.
- There is a meaningful connection between the influence of social media and the stock market in the study area.

Conclusion

In conclusion, while social media can occasionally influence stock prices, it should not be viewed as a primary driver of long-term market value. Companies need not invest excessive resources into managing their social media presence with the expectation of impacting stock performance. Instead, their efforts should be directed toward core business operations, strategic marketing, and maintaining transparency all of which build sustainable investor confidence. Although social media plays a supportive role in facilitating investor communication and market engagement, its influence is often short-term and sentiment-driven. Therefore, its use should complement not replace sound business fundamentals and practices.

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