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|  <p>ISSN (O): 2320-5407<br/>ISSN (P): 3107-4928</p> | <p>Journal Homepage: <a href="http://www.journalijar.com">-www.journalijar.com</a></p> <h2>INTERNATIONAL JOURNAL OF<br/>ADVANCED RESEARCH (IJAR)</h2> <p>Article DOI:10.21474/IJAR01/23703<br/>DOI URL: <a href="http://dx.doi.org/10.21474/IJAR01/23703">http://dx.doi.org/10.21474/IJAR01/23703</a></p> |  <p>INTERNATIONAL JOURNAL OF<br/>ADVANCED RESEARCH (IJAR)</p> <p>Published Homepage: <a href="http://www.journalijar.com">http://www.journalijar.com</a><br/>Journal ISSN (O) 2320-5407<br/>Journal ISSN (P) 3107-4928</p> |
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### RESEARCH ARTICLE

## HOW ECONOMIC SHOCKS AND HUMAN BEHAVIOR DROVE STOCK MARKET VOLATILITY DURING COVID-19

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### Manuscript Info

#### Manuscript History

Received: 14 April 2026

Final Accepted: 16 May 2026

Published: June 2026

### Abstract

The continuing COVID-19 outbreak has led to several consequences concerning the health of the public as well as economic and financial market repercussions throughout the world. Stock markets experienced huge falls due to lockdown, closure and increased uncertainty amongst the investors in early 2020. The current study attempts to understand the impacts of the current COVID-19 outbreak on the volatility in the Indian and US stock markets through the performance of the BSE Sensex and S&P 500 indices. Moreover, the influence of the behavior of investors, fear, and government policy on stock market dynamics would also be analyzed in the present study. The secondary data has been utilized for this research which has been taken from authentic sources such as BSE, S&P, RBI, WHO, and journal articles. It is found from the findings that even though the economic shock was responsible for the fall in the stock market, the investor sentiment and government policies played a key role in stabilizing the market.

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### Introduction:-

#### Background of the Study:-

The outbreak of the coronavirus disease (COVID-19) can be regarded as one of the defining moments in the 21st century (World Health Organization [WHO], 2020). It was initially perceived as a health threat; however, the repercussions quickly extended beyond medical institutions. Nations adopted strict quarantine policies such as imposing lockdowns and limiting travel and business activities. Such interventions impacted various sectors of the economy, including industries, employment rates, global commerce, and financial markets. The COVID-19 pandemic created an unprecedented environment where multiple variables could influence stock market trends.

It is apparent that the pandemic significantly affected global equity indices, prompting a decline in investors' confidence levels. Most corporations were compelled to suspend or minimize their productive activities; hence, their capacity to generate revenues diminished drastically. In turn, stock prices started dropping sharply, leading to massive losses within a relatively short timeframe. The magnitude of loss observed during the period constitutes some of the steepest decreases recorded in recent years. Moreover, the volatility experienced was exceptionally high compared to previous crises, indicating extreme fluctuations in daily closing prices. Unlike past financial crises, which originated from internal financial issues, the current situation resulted from external forces, specifically the emergence of the coronavirus pandemic (Baker et al., 2020). Since the health crisis directly affects both companies and consumers simultaneously, the pandemic emerges as an essential phenomenon worth examining from economic

and behavioral perspectives. This paper aims to investigate the relationship between the COVID-19 pandemic and stock market trends. Additionally, it evaluates the effect of emotional responses and policy interventions in shaping market dynamics.

**Statement of the Problem:-**

The outbreak of the COVID-19 pandemic brought immense uncertainty among firms, policymakers, and investors worldwide. With the imposition of strict lockdown measures and reduced economic activities, there was a rapid decline in the performance of global stock markets. Most investors chose to sell off their stocks amid fears about the uncertain future, while some waited until market conditions improved. While multiple economic variables affected the fall in the price levels of stocks, there is evidence suggesting that investor behavior played an equally important role. An analysis of how fear, uncertainty, and panic selling impacted stock markets would facilitate a better understanding of market dynamics during the pandemic. In light of the above observations, this paper analyzes the influence of COVID-19 on the volatility of stock markets using two major economies – India and the USA. This comparison would provide valuable insights into how both economic conditions and investor psychology affected market outcomes.

**Research Question:-**

**This study is guided by the following research question:-**

How did the COVID-19 pandemic affect stock market volatility in India and the United States, and what role did investor behaviour play in increasing market fluctuations?

**Sub-Questions:-**

- How did the COVID-19 pandemic affect the BSE Sensex and the S&P 500?
- How did fear and uncertainty influence investor decisions during the pandemic?
- What role did government policies play in helping financial markets recover?
- What lessons can investors learn from the COVID-19 stock market crash?

**Objectives of the Study:-**

**The main objectives of this research are:-**

1. To study the impact of the COVID-19 pandemic on stock market volatility.
2. To compare the performance of the BSE Sensex and the S&P 500 during the pandemic.
3. To understand how investor behaviour influenced stock market movements.
4. To examine the role of government and central bank policies in market recovery.
5. To identify the key lessons that investors can learn from the COVID-19 market crisis.

Selection criteria for India and the United States were based on their distinctiveness as key economies around the globe. While the US boasts one of the most advanced financial markets globally, symbolized by the S&P 500 Index, India represents one of the fastest-growing emerging economies worldwide. Its primary stock market index is known as the BSE Sensex. It was essential to conduct comparative analysis between the two stock markets since the comparison would allow for a better comprehension of the response exhibited by various economies in reaction to the same crisis. Given that the coronavirus pandemic had an impact on multiple countries globally, analyzing India and the USA would help detect similarities and differences between them. Being a student of Indian origin, it seemed relevant to analyze the behavior of both financial markets.

**Scope of the Study:-**

The current study seeks to analyze the influence of the coronavirus outbreak on stock market volatility, especially within the period of February-June 2020 when the maximum market volatility occurred. Two leading stock market indexes have been considered, namely the BSE Sensex index of India and the S&P 500 index of the United States. Specifically, the analysis includes changes in the prices of stocks, behavior of investors, and policies implemented by governments and monetary authorities during the COVID-19 crisis. All information used in this study is derived from secondary sources, including official websites of stock exchanges, government documents, academic papers, and finance-related periodicals.

**Limitations of the Study:-**

**Every research study has certain limitations, and this study is no exception:-**

- The study is based only on secondary data collected from published sources.

- It focuses only on the Indian and United States stock markets and does not include other countries.
- The research mainly examines the first phase of the COVID-19 pandemic and does not cover later developments.
- Individual companies and industries have not been analysed separately; instead, the study focuses on overall market indices.
- Investor behaviour has been discussed using published research and market observations rather than primary surveys.

### **Literature Review:-**

The coronavirus pandemic has caused severe disruptions in economies globally. Many researchers have analyzed its effects on stock markets and investment behavior. This analysis provides valuable insights into changes observed in financial systems during emergencies. In addition, it highlights the importance of behavioral theories in explaining market dynamics under extreme uncertainty. For example, Baker et al. (2020) explored the impact of the coronavirus pandemic on the US stock market. Their findings indicate that the coronavirus-induced economic disruptions resulted in one of the fastest and deepest drops ever recorded. The main cause identified in their study was the increased uncertainty regarding the future outlook for companies. Another factor that had a significant impact on stock market performance was news related to the pandemic situation, which caused fluctuations due to variations in investor sentiments. Ramelli and Wagner (2020) focused on the performance of various industries during the coronavirus outbreak. They found that sectors like tourism, aviation, and hospitality experienced huge losses as lockdowns impacted their operations negatively. Conversely, technology firms were able to recover faster since demand for digital products/services increased significantly during the pandemic.

Zhang, Hu, and Ji (2020) conducted cross-country analysis to determine the effects of coronavirus on financial markets. Based on their results, stock markets around the globe witnessed considerable levels of volatility during this period. Rising infection rates, uncertainty surrounding economic growth forecasts, and changes in government policies were among the major drivers behind fluctuations in stock prices. Within the Indian context, Mishra, Rath, and Dash (2020) investigated the relationship between consumer confidence and stock market returns during the pandemic. Their analysis indicated that there was a substantial decline in investor confidence due to rising coronavirus infection rates and disruptions in economic activity. The findings emphasize the significance of confidence and expectations in predicting market performance, especially in emerging economies such as India. Behavioral theories offer useful explanations of stock market dynamics during crises. For instance, Kahneman and Tversky's (1979) Prospect Theory states that people tend to rely on emotions rather than rational decision-making while making investments in times of extreme uncertainty. This explains why numerous investors sold off their shares out of fear in the initial stages of the coronavirus pandemic despite knowing that the situation would improve soon.

According to Eugene Fama's (1970) Efficient Market Hypothesis, stock prices adjust instantly to incorporate all relevant information available at any point in time. Thus, any announcement about lockdown restrictions, infection rate figures, vaccine updates, or stimulus measures is immediately reflected in the stock price. Therefore, understanding the concept of efficient markets helps understand how financial markets operate during crises.

The current literature has produced substantial knowledge regarding the effects of the coronavirus pandemic on financial markets worldwide. There is widespread consensus that economic shocks, uncertainty, and investor behavior collectively caused unprecedented spikes in market volatility. However, limited research has examined comparative analysis of Indian and US stock markets in relation to the coronavirus pandemic and assessed their performance. Therefore, the present study aims to bridge this knowledge gap by analyzing the differences between BSE Sensex and S&P 500 during the pandemic and exploring how investor behavior impacted volatility in both contexts

### **Research Methodology:-**

The research methodology section provides details about the methodologies employed in conducting this study. It describes the data collection procedure, data sources, and approaches adopted for addressing the research question posed. As this research aims to evaluate the effects of COVID-19 on stock market performance, all data employed in the present research are secondary and derived from credible sources. The current research adopts a descriptive and comparative research design. Descriptive research methodology was chosen in order to assess the influence of the COVID-19 outbreak on stock market volatility. In contrast, a comparative research methodology was applied in

comparing stock market performances of two countries, namely, India and the United States, during the specified timeframe.

Data utilized in the research were sourced from the websites of official organizations and government agencies. Specifically, daily closing values of the BSE Sensex index were collected from the Bombay Stock Exchange website and NSE India. The S&P 500 index data were sourced from S&P Global, Yahoo Finance, and Macrotrends, which provide historical data on the stock market (Bombay Stock Exchange, 2020; S&P Dow Jones Indices, 2020). Information related to COVID-19 cases and events during the outbreak period were retrieved from the World Health Organization (WHO) website and the Ministry of Health and Family Welfare, Government of India (WHO, 2020; Ministry of Health and Family Welfare, 2020). Monetary policies implemented by central banks were collected from RBI and US Federal Reserve publications. Other relevant information pertaining to economic conditions was gathered from academic journals, newspaper articles, and other reliable sources. In the present study, emphasis was placed on analyzing two prominent stock market indices, namely, BSE Sensex and the S&P 500 index. These stock markets were selected since they represent two distinct economies at varying stages of economic development. Analyzing their performance would provide insights into the response patterns of financial markets amid a global shock event like COVID-19. Data analyzed in the research covered the period between February 2020 and June 2020 since this period represented heightened volatility levels in the stock market. Analysis of stock prices involved evaluating day-to-day market fluctuations, major government policies implemented, lockdowns, and other significant events.

For analyzing the collected data, basic comparative and graphical techniques were employed. Graphical representations were made to display trends observed in BSE Sensex and S&P 500 indices. Key events, including declaration of pandemic status by WHO, implementation of nation-wide lockdowns, and government fiscal stimulus packages, were correlated with fluctuations in stock prices. Interpretations made on the analyzed data were based on fundamental principles of economics and financial market behavior. Since the research relied solely on secondary data, questionnaire surveys and personal interviews were not required.

**Table 1 : Research Methodology**

| Particular           | Description                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| Research Design      | Descriptive and Comparative Research                                                                             |
| Nature of Data       | Secondary Data                                                                                                   |
| Study Area           | India and the United States                                                                                      |
| Stock Market Indices | BSE Sensex and S&P 500                                                                                           |
| Study Period         | February 2020 – June 2020                                                                                        |
| Data Sources         | BSE India, NSE India, S&P Global, Yahoo Finance, Macrotrends, WHO, RBI, U.S. Federal Reserve, Government Reports |
| Method of Analysis   | Trend Analysis, Comparative Analysis, Graphical Representation                                                   |

#### **Analysis & Interpretation:-**

##### **Timeline of Major COVID-19 Events and Stock Market Reactions:-**

Stock market movements during the coronavirus outbreak were significantly affected by key events at the international level and policy decisions made by governments. The rapid dissemination of information regarding the virus prompted immediate responses among investors depending on prevailing economic circumstances. Events such as declaring the coronavirus outbreak as a global pandemic, implementing national lockdowns, imposing strict quarantine regulations, and introducing stimulus packages to mitigate economic repercussions exerted considerable influence on stock market movements. Analysis of these key events provides insights into explaining fluctuations in the BSE Sensex and S&P 500 indices observed between January and June 2020. Table 2 presents some of the major events that influenced financial markets between January and June 2020.

**Table 4.1 Major COVID-19 Events and Their Impact on Stock Markets**

| <b>Date</b>             | <b>Major Event</b>                                                                           | <b>Impact on Financial Markets</b>                                                      |
|-------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>30 January 2020</b>  | WHO declared COVID-19 a Public Health Emergency of International Concern (PHEIC).            | Investors became cautious, but market movements remained relatively stable.             |
| <b>24 February 2020</b> | Rapid increase in COVID-19 cases outside China.                                              | Global stock markets started falling as uncertainty increased.                          |
| <b>11 March 2020</b>    | WHO officially declared COVID-19 a global pandemic.                                          | Sharp decline in both the BSE Sensex and the S&P 500 due to panic selling.              |
| <b>24 March 2020</b>    | India announced a nationwide lockdown.                                                       | The Sensex recorded one of its biggest declines as economic activity came to a halt.    |
| <b>27 March 2020</b>    | RBI announced repo rate cuts and liquidity support measures.                                 | Investor confidence gradually improved, and the Indian stock market began to stabilise. |
| <b>Late March 2020</b>  | The U.S. Federal Reserve and the U.S. Government announced major economic stimulus packages. | The S&P 500 started recovering as investor confidence improved.                         |
| <b>May–June 2020</b>    | Gradual reopening of businesses in many countries.                                           | Both the BSE Sensex and the S&P 500 showed signs of recovery.                           |

**Source:** Prepared by the researcher using data and information from the World Health Organization (WHO, 2020), Reserve Bank of India (RBI, 2020), U.S. Federal Reserve (2020), Ministry of Health and Family Welfare, Government of India (2020), and historical market data from BSE India, S&P Global, and Yahoo Finance.

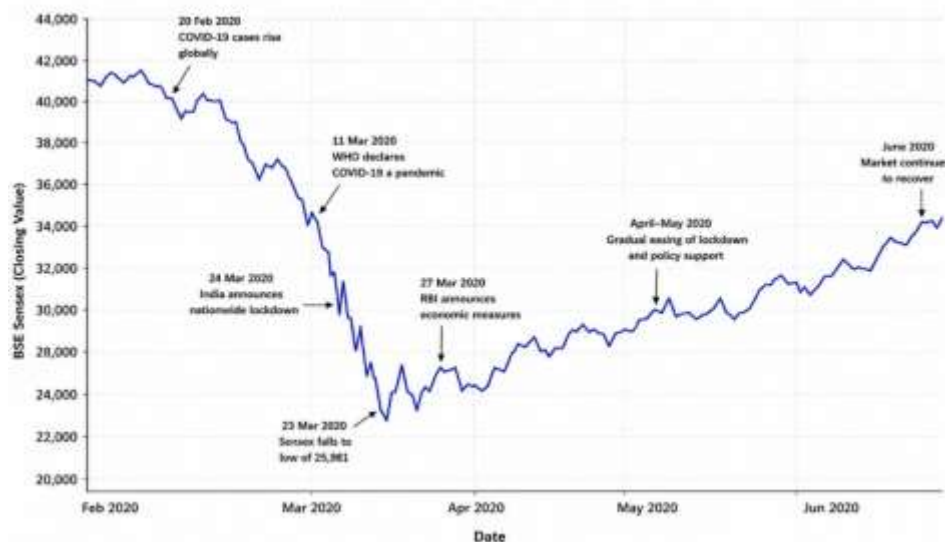
#### **Analysis of the Indian Stock Market (BSE Sensex):-**

One of the prominent stock market indices used to gauge the performance of 30 leading companies trading at the Bombay Stock Exchange (BSE) is the BSE Sensex. The outbreak of the COVID-19 pandemic resulted in substantial volatility in the Indian stock market owing to rapidly fluctuating economic circumstances faced by businesses and consumers. Prior to March 2020, the Sensex registered robust performance and had attained unprecedented highs. Following the imposition of nationwide lockdown in India amidst the growing threat posed by the coronavirus outbreak, investor sentiment deteriorated sharply (Reserve Bank of India [RBI], 2020).

The suspension of commercial activities led to pessimism regarding economic expansion, profitability, and job creation among firms, which prompted investors to offload their holdings. As a consequence, the Sensex plummeted

sharply in a matter of weeks. After the government of India and the Reserve Bank of India initiated fiscal and monetary policies aimed at stimulating economic recovery, respectively, investor sentiments recovered progressively. Despite uncertainties prevailing in the economy, investors gradually resumed their participation in the market, facilitating gradual recovery of the Sensex..

Figure 1 illustrates the movement of the BSE Sensex between February and June 2020, highlighting the sharp decline during March followed by a gradual recovery.



**Figure 1 Daily Movement of the BSE Sensex (February–June 2020)**

**Source:** Historical market data compiled from BSE India ([www.bseindia.com](http://www.bseindia.com)) and Yahoo Finance ([finance.yahoo.com](http://finance.yahoo.com)).

As illustrated in Figure 1, the Indian benchmark index BSE Sensex maintained relative stability throughout the month of February 2020 until a significant drop occurred in the subsequent month. The sharp decline corresponded with the fast-spreading coronavirus disease (COVID-19), the World Health Organization's classification of the outbreak as a pandemic, and the imposition of a complete lockdown across the country. At this stage, there existed significant uncertainty among investors regarding business operations and economic prospects, causing substantial selling pressure in the capital markets. Since April, the chart depicts a steady increase in market indices. The upward trajectory can be attributed to various monetary policies implemented by the Reserve Bank of India (RBI) alongside government stimulus packages aimed at reviving economic activity. While it may not yet be possible to restore market conditions to pre-COVID levels, the ongoing positive trend reflects growing investor confidence.

#### **Analysis of the United States Stock Market (S&P 500):-**

The S&P 500 index is widely recognized as one of the prominent stock market indices globally. The index monitors the performance of 500 largest companies that trade at major stock exchanges within the United States. As such, it is viewed as a significant measure for assessing the financial market performance of the country. Similar to the Indian stock market, the S&P 500 has been greatly impacted by the outbreak of the novel coronavirus disease (COVID-19). Towards the end of 2019 and early 2020, the stock market had been experiencing robust performance due to sustained economic growth and increasing levels of investor optimism. However, the unprecedented rate at which the virus spread worldwide led to uncertainties regarding future business operations and global economic activity. Investors started offloading their stocks, causing a sharp drop in the value of the S&P 500. Several factors have been identified as influencing this phenomenon, such as fears related to lockdowns, job losses, and decreased consumer expenditure.

The lowest level observed in the S&P 500 occurred in March 2020 when WHO declared COVID-19 a global pandemic. The government and Federal Reserve took decisive actions through the announcement of stimulus

packages, cutting down interest rates, and financial aid for businesses(Federal Reserve System, 2020). Such measures contributed positively towards restoring investor confidence and facilitated stock market recovery. Figure 2 illustrates the movement of the S&P 500 between February and June 2020. Similar to the BSE Sensex, the index experienced a sharp decline during March before gradually recovering as economic support measures were introduced.



**Figure 2 Daily Movement of the S&P 500 (February–June 2020)**

Source: Historical market data compiled from S&P Global, Yahoo Finance (finance.yahoo.com), and Macrotrends (www.macrotrends.net).

Graph 2 depicts a relatively flat trajectory of the S&P 500 until February 2020, followed by a sharp drop from March. This downturn occurred because of rapid outbreaks of the coronavirus disease (COVID-19) pandemic within the United States and internationally. Rising uncertainties concerning economic expansion, business profits, and the pandemic period contributed to investors' pessimistic outlooks on stock markets. In response to monetary policies initiated by the U.S. Federal Reserve and fiscal measures enacted by the U.S. federal government, however, the stock market recovered gradually since April 2020. Such a trend reveals increased optimism among market participants about business operations under new economic circumstances and future prospects of economic recovery. Consequently, this study finds that the fluctuations in the S&P 500 reveal that the U.S. stock market exhibited a prompt reaction to negative shocks and intervention policies. Although a major downturn resulted from the onset of the pandemic, appropriate governmental action and positive investor sentiments played critical roles in facilitating recovery processes.

### **Comparative Analysis of the BSE Sensex and the S&P 500:-**

The preceding sections have evaluated the individual performance of the Indian and US stock markets during the COVID-19 period. The present section aims to compare both markets to determine the response of each to the COVID-19 crisis and any patterns of resemblance or differences between their performance trajectories. Despite structural variations between India and the United States' economies, the Indian and US stock markets registered a drastic downfall in March 2020 when the coronavirus infection rapidly increased globally. Lockdown orders issued in many regions across the globe led to uncertainties among investors concerning future economic performance because of trade disruptions, closure of firms, and the likelihood of recession. Such uncertainties created panic in the market, leading to massive sell-offs in both the BSE Sensex and S&P 500 indexes.

Interestingly, both stock markets exhibited comparable trends during their recovery phases as well. Once government bodies and central banks declared economic relief plans for combating the negative effects of the pandemic, investors regained some degree of assurance. Gradual lifting of lockdown measures and resumption of commercial activities allowed the markets to recover steadily during April, May, and June 2020.

Figure 3 illustrates the relative trends of the BSE Sensex and S&P 500 indexes throughout the first wave of the coronavirus outbreak.



Figure 3 Comparison of the BSE Sensex and S&P 500 (February–June 2020)

Source: Prepared by the researcher using historical market data from BSE India, S&P Global, Yahoo Finance, and Macrotrends.

As depicted in Figure 4.3, it is evident that there was a comparable trajectory between the BSE Sensex and the S&P 500 indices during the early months of 2020. In February, both indices showed stable trends; however, there was a dramatic fall in March amid escalating concerns about the spread of the coronavirus disease. The trough was reached at the end of March, indicating heightened levels of fear and panic among investors. After April, both indices started to show an uptrend in response to various policy actions implemented by respective national governments. Although there were differences in the rate of recovery, the general movement was comparable. Such similarities imply positive changes in investor sentiment due to policy interventions made by the concerned authorities. This analysis reveals that despite varying economic conditions in both countries, similar patterns of stock market behavior were observed during the pandemic period. This finding emphasizes the interdependencies existing within the global finance system, whereby major events occurring internationally tend to impact investor sentiment in diverse nations.

#### Investor Behaviour During the COVID-19 Pandemic:-

The outbreak of the coronavirus pandemic led to various consequences for financial systems and economies globally. One of the most essential aspects impacted by the coronavirus was investor behavior. The occurrence of unexpected events causes investors to make hasty reactions due to uncertainty regarding future prospects. With regard to the coronavirus outbreak, the rapid spread of infections and implementation of lockdown measures led to high levels of uncertainty and fear among investors. Therefore, the objective of this study is to analyze investor behavior and its influence on stock market returns during the coronavirus pandemic.

At the beginning of the coronavirus outbreak, numerous investors experienced concerns regarding the deterioration of corporate profitability and emergence of an economic recession. Reports concerning increased numbers of infections and economic disruptions led to uncertainty. Hence, there was considerable selling pressure in global stock markets because many people wanted to sell off shares before facing any financial damage (Kahneman & Tversky, 1979). Consequently, there was a drastic fall in the indices of stock exchanges around the world. For

instance, there was a considerable drop in the BSE Sensex and S&P 500 indices in March 2020 due to panic-induced selling activity. Furthermore, television news channels, newspaper articles, and online media played critical roles in affecting investor behavior through continuous dissemination of negative information. Stock markets tend to respond promptly to new information. Thus, media coverage contributed to higher volatility during the initial period of uncertainty (Fama, 1970).

As governments and central banks took action to provide relief and stimulate their respective economies, investor confidence started recovering gradually. For instance, in India, the Reserve Bank of India decreased interest rates and announced monetary assistance, whereas the Government introduced economic relief schemes. Likewise, in the USA, the Federal Reserve reduced interest rates and the government provided massive economic stimulus. These efforts helped in building investor confidence. During April, May, and June 2020, investors felt confident enough to participate actively in the financial markets. The recovery of the BSE Sensex and S&P 500 indices reveals an improvement in investor sentiment. Although some level of uncertainty existed, people began showing faith in their government's initiatives and economic recovery. People's fears and uncertainties triggered the fall in equity prices. Conversely, confidence resulted in rising returns.

## **Conclusion and Recommendations:-**

### **Major Findings of the Study:-**

Based on the findings of the current analysis, it can be concluded that the COVID-19 pandemic caused considerable fluctuations in the Indian and US stock markets. Both the BSE Sensex and the S&P 500 indexes showed a sharp drop in March 2020 owing to rising case numbers of coronavirus infection and subsequent lockdown policies implemented in response to the outbreak of the disease. Economic instability resulted in decreased business operations, increased market uncertainty, and reduced investor confidence. These factors led to heightened volatility within stock exchanges in both countries under consideration (Baker et al., 2020; Mishra et al., 2020). Upon comparing changes observed in the two stock market indexes under discussion, it becomes evident that despite significant differences between India and the USA concerning their economic sizes and national market conditions, the two indices experienced similar trends at the onset of the pandemic. After relatively steady values recorded at the beginning of the year, both stock markets showed a rapid decline in March followed by gradual growth throughout April-June. The results obtained suggest that the world financial system exhibited uniform reactions to the emergence of economic uncertainty caused by the virus.

The impact of investor behavior emerged as another critical factor contributing to stock market changes in India and the United States during the pandemic period. In response to anticipated economic downturns, fears related to possible financial losses, and constant information flows regarding rising infections across the globe, many investors decided to divest their shares. Consequently, a steep fall occurred in stock prices. Gradual improvements in investor perceptions occurred after governments launched economic stimulus plans and monetary relief programs.

Governmental interventions proved to play a key role in decreasing market uncertainty in both countries. Actions undertaken by such institutions as the Reserve Bank of India and the Federal Reserve System of the USA were aimed at supporting local businesses, enhancing liquidity within financial markets, and fostering increased confidence among stakeholders. These measures significantly contributed to restoring order in both markets following unprecedented economic instability. Thus, based on the conducted analysis, it can be stated that the movement of stock exchanges in India and the USA in response to the COVID-19 outbreak was determined by economic conditions and psychological factors affecting investor decisions. Although the pandemic triggered substantial fear and uncertainty, the implementation of appropriate policies allowed both markets to recover and regain stability. This research emphasizes the importance of accounting for different aspects of human psychology when studying financial systems' behavior amid crises.

## **Conclusion:-**

The Coronavirus Disease 2019 (COVID-19) pandemic was one of the most devastating incidents in contemporary history. In addition to public health ramifications, the pandemic has had profound implications for global economics and financial markets. The current study investigates the effects of COVID-19 on the Indian and American stock markets using the performance trends of the Bombay Stock Exchange Sensitive Index (BSE Sensex) and Standard & Poor's 500 (S&P 500). It was observed that the two indices underwent a sudden plunge in March 2020 amid rising concerns regarding the pandemic and resultant lockdowns. Despite differences in the economic environments in both nations, both stock exchanges exhibited analogous trends of fall and recovery, which demonstrates the inherent

interconnection among international financial markets. This characteristic makes them prone to responding similarly to any international crisis event(RBI, 2020; Federal Reserve System, 2020).

The research revealed that investor psychology is another significant variable that determines volatility in the stock market. Uncertainty and fear about the future prompted many people to sell their stocks, resulting in substantial losses. On the other hand, government interventions and monetary policies have played crucial roles in boosting confidence levels and restoring market equilibrium. From a theoretical perspective, the study underscores the importance of factors other than economic fundamentals, such as investor sentiment and confidence, in determining the performance of financial markets. Under uncertain conditions, emotional aspects can significantly influence decision-making processes and trigger fluctuations in the market. Thus, the present case provides relevant insights into the dynamics of international stock markets. In conclusion, the study contributes to the existing literature by enhancing comprehension regarding stock market reactions to catastrophic events. The lessons learnt can be invaluable for stakeholders, including investors, scholars, and policymakers, when planning strategies to mitigate risks in subsequent crises.

### **Recommendations:-**

This research underscores the significance of being well-informed and making conscious decisions while investing, especially amid economic uncertainties. The current pandemic outbreak has illustrated the impact of fear and panic on financial markets. Accordingly, investors are advised to base their investment decisions on sound judgment and valid information instead of responding impulsively to daily changes in the market. Moreover, having a diversified investment portfolio and practicing a long-term investment strategy would prove to be effective in minimizing financial risks amid uncertainty.

Another critical point highlighted in the present research relates to government actions during times of economic or financial turmoil. In response to the ongoing pandemic outbreak, economic stimulus plans, monetary policies, and financial support measures introduced by the Government of India, the Reserve Bank of India, the United States Government, and the Federal Reserve System helped stabilize investors' confidence levels. As a result, future economic and financial policies may consider implementing similar measures during any economic or financial crisis to ensure minimum market instability and facilitate economic recovery. Improving financial knowledge is another area that needs attention. Knowledge of stocks, investment strategies, and economic news may play a crucial role in guiding people toward making prudent financial decisions. Schools and colleges may incorporate financial education programs within the curriculum to enhance students' understanding of various investment-related concepts and their behavior in financial markets. Access to valid and verified sources of financial information is yet another factor discussed in the paper. Throughout the pandemic outbreak, excessive media coverage and misinformation may have heightened feelings of uncertainty among investors. Reliable information sources may assist individuals in evaluating their financial situation objectively and making rational decisions.

Further research may explore new dimensions by studying additional stock markets, industries, and/or periods of time. Future studies might include comparative analyses between multiple nations to examine differences in responses towards global catastrophes and investor behaviors across diverse financial markets.

### **Limitations of the Study:-**

As with any research, there are various limitations to be noted regarding the analysis conducted in this study. It must be understood that all information used herein was sourced from secondary sources, including online sources of the respective stock exchanges, governmental documents, databases of financial information, and scholarly publications. No primary information was gathered using surveys or interviews; hence, this analysis lacks insights into personal experiences and perspectives of investors affected by the COVID-19 pandemic.

This study focuses solely on two indices: the BSE Sensex representing the Indian stock market and the S&P 500 index representing the US stock market. Even though the indices offer a reliable indication of stock market trends, they cannot be considered a full representation of all businesses operating within their jurisdictions. Each sector – including the healthcare industry, the tech sector, the tourism sector, and aviation industries – was impacted differently. Therefore, the differences should have been analyzed independently from each other. It should also be acknowledged that the current analysis is constrained temporally and covers only February-June 2020. This timeframe was selected considering that it corresponds to the period of peak volatility caused by the outbreak of COVID-19 in both countries under examination.

In addition, one needs to consider external determinants affecting the operation of stock markets worldwide. Stock market dynamics depend on a multitude of variables, including economic development in foreign countries, political crises, predictions about future trends made by investors, and governmental interventions. The present paper allows for making valuable comparisons between the Indian and US stock markets. One might gain deeper insight into the influence of global health issues on the economy and financial market operations.

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