

## **A Technical Analysis of the Performance of an Indian Stock Market Index During and Post COVID-19**

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### **Abstract**

This study uses technical analysis to understand market dynamics in response to global crises to examine the performance of the Nifty and Bank Nifty indices during and after the COVID-19 pandemic. Key objectives include analyzing the pandemic's impact on these indices, assessing fiscal and monetary interventions, identifying recovery patterns, and evaluating the sustainability of the banking sector's recovery. Employing a mixed-methods approach, the research integrates quantitative data from financial databases with qualitative insights from policy documents and expert interviews across pre-pandemic, pandemic, and post-pandemic periods. Initial findings indicate significant volatility and decline in the indices during the pandemic's onset, followed by a strong recovery driven by policy measures and vaccine rollouts. Technical analysis using indicators such as moving averages, RSI, and Fibonacci retracements effectively identified trends and recovery patterns. While the indices demonstrated resilience, challenges persist in the banking sector, underscoring the need for robust risk management, digital transformation, and regulatory compliance. The study provides actionable recommendations for investors, policymakers, and researchers to enhance market stability and resilience. Addressing research gaps offers a deeper understanding of financial market behavior during crises, informing strategies for future recovery and growth.

***Keywords: Nifty, Bank Nifty, COVID-19, technical analysis, market recovery***

**Introduction**

The COVID-19 pandemic has been a defining moment in the 21st century, affecting every aspect of human life, including the global economy and financial markets. The Nifty 50, one of India's leading stock indices representing the weighted average of 50 of the largest Indian companies listed on the National Stock Exchange (NSE), has not been immune to the impacts of the pandemic. This study focuses on the performance of the Nifty during and after the COVID-19 pandemic, with a specific emphasis on the Banking sector through the Bank Nifty, which represents the 12 most liquid and large capitalized stocks from the banking sector listed on the BSE and NSE.

The banking sector, represented by the Bank Nifty, is of particular interest due to its significant role in the economy and its sensitivity to economic changes. Banks were at the forefront of the pandemic's economic impact, facing challenges such as increased loan defaults and pressure on profitability. However, the sector also played a pivotal role in economic recovery, facilitating the flow of credit and supporting government initiatives to revive growth (Nanda, 2021). Analyzing the performance of Bank Nifty offers insights into the broader economic recovery and the effectiveness of policy measures taken to mitigate the pandemic's impact.

This study uses technical analysis to comprehensively analyze Nifty and Bank Nifty's performance during and after the COVID-19 pandemic. It seeks to understand the market dynamics and the banking sector's response to the unprecedented challenges posed by the pandemic. Through this analysis, the study contributes to the broader discourse on the resilience of financial markets in the face of global crises and the critical role of policy interventions in stabilizing economies and markets.

This study's central problem is the need for a comprehensive understanding of the performance of the Nifty and Bank Nifty during and after the COVID-19 pandemic. It aims to identify the patterns and trends in these indices using technical analysis, providing insights into the effectiveness of the

policy measures taken and the resilience of the Indian stock market. This study also seeks to contribute to the discourse on the role of the banking sector in economic recovery, examining the challenges and opportunities faced by banks during this period. Understanding these dynamics is crucial for investors making informed decisions, policymakers crafting adequate responses to future crises, and researchers studying the impact of global pandemics on financial markets.

### **Research Objectives**

The main objective of this research is to thoroughly examine the performance of the Nifty and Bank Nifty indices during and following the COVID-19 pandemic, focusing on using technical analysis as the critical examination method.

This study is structured around a series of specific goals to steer the investigation:

1. To Analyze the Impact of COVID-19 on the Nifty and Bank Nifty Indices, aiming to understand the extent of the impact, the recovery process, and the long-term implications for investors and the financial markets.
2. To assess the impact of policy interventions on the Nifty Index's performance during and after COVID-19 through technical analysis.
3. To Identify and Analyze Recovery Patterns Using Technical Analysis to understand the recovery trajectory and the factors influencing these patterns in the post-pandemic period.
4. To Assess the Sustainability of the Recovery in the Banking Sector and its resilience to future shocks.
5. To inform investors, policymakers, and researchers about the dynamics of financial markets in the face of global crises.

### **Research Questions**

The research questions are outlined as follows:

1. What was the impact of the COVID-19 pandemic on the Nifty and Bank Nifty indices during the 200 trading days of the pandemic and the subsequent 200 trading days post-pandemic?
2. How did fiscal and monetary policy interventions by the RBI and the Government of India influence the performance of the Nifty and Bank Nifty indices during the pandemic?
3. Which technical analysis indicators most effectively identified trends and patterns in the Nifty and Bank Nifty indices during and after the pandemic?
4. What are the recovery patterns observed in the Nifty and Bank Nifty indices, and what do they suggest about the sustainability of the market recovery?
5. What implications does the pandemic have for the resilience and future performance of the banking sector, as reflected by the Bank Nifty index?
6. How do the findings from the Nifty and Bank Nifty analysis during the COVID-19 pandemic contribute to understanding financial markets' behavior in response to global crises?

By exploring these research questions, the study plans to give a detailed examination of the COVID-19 pandemic's effects on the Nifty and Bank Nifty indices. It hopes to provide helpful information for investors, policymakers, and future financial and economic research.

### **Literature Review (Research Gap)**

Despite the substantial body of research on the impact of COVID-19 on global financial markets, a discernible gap exists in the specific analysis of the Nifty and Bank Nifty indices in the Indian market context. While existing studies have broadly addressed market dynamics and the efficacy of policy interventions during pandemics, there is a lack of in-depth investigation into how these

indices, critical barometers of the Indian economy and banking sector's health, have responded to the pandemic's challenges. This gap extends to the detailed examination of fiscal and monetary policy interventions by the Reserve Bank of India (RBI) and the Government of India, particularly their direct effects on these indices during the acute phases of the pandemic and their roles in the subsequent recovery process.

Furthermore, the literature review indicates a scarcity of research employing technical analysis to identify and analyze recovery patterns specific to the Nifty and Bank Nifty during and after the COVID-19 pandemic. This includes a gap in understanding which technical indicators proved most effective in navigating the pandemic-induced market volatility and forecasting the recovery trajectory of these indices.

Another significant research gap is assessing the sustainability of the recovery observed in the banking sector, as represented by the Bank Nifty index. While some studies have touched upon recovery patterns in financial markets following economic downturns, a focused analysis of the banking sector's resilience in the face of unprecedented health and economic crises brought about by COVID-19 is needed.

Lastly, the broader implications of the pandemic on the resilience and future performance of the banking sector, and by extension, the financial market's preparedness for global crises, remain underexplored. The specific contribution of the study's findings to the discourse on financial markets' behavior in response to international crises highlights another critical research gap. By addressing these gaps, the study aims to enrich the understanding of the dynamic relationship between pandemics and financial markets, focusing on the Indian context, thus offering valuable insights for investors, policymakers, and scholars in finance and economics.

## Research Design

This study employs a mixed-methods approach, combining quantitative and qualitative analyses. Quantitative data from financial databases, including historical price movements of Nifty and Bank Nifty, are used to conduct technical analysis. Qualitative insights from policy documents and expert interviews provide context to the observed market trends. Data collection spans pre-pandemic, pandemic, and post-pandemic periods.

## Data Analysis

### Quantitative Research Analysis

**Table 1: Descriptive Statistics for Bank Index Daily Closing Values**

Statistic	N	Minimum	Maximum	Mean	Std. Deviation
Daily Closing Value of Bank Index	401	16,917.65	32,443.85	26,719.23	4,541.72
Closing Value Before COVID (2019)	200	26,757.65	32,412.35	29,804.61	1,448.37
Closing Value After COVID (2019)	200	16,917.65	32,443.85	23,605.66	4,460.26

**Table 2: Descriptive Statistics and Correlations for Bank Index Closing Values**

Statistic	Mean	N	Std. Deviation	Std. Error	Correlations
Closing Value of Bank Index Before	29,804.61	200	1,448.37	102.42	-0.144 ***

COVID-19 (2019)					
Closing Value of Bank Index After COVID-19 (2019)	23,605.66	200	4,460.26	315.39	(p = 0.042)

Note: \*\*\* 1% Significance, \*\*5% Significance and \*10% Significance.

**Table 3: Paired Samples T-Test for Closing Value of Bank Index**

Paired Differences	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference	T	df	p-value (2-tailed)
Closing Value of Bank Index Before COVID-19 (2019) - After COVID-19 (2019)	6,198.95	4,883.84	345.95	5,517.34 to 6,879.56	17.950	199	.000

Note: \*\*\* 1% Significance, \*\*5% Significance and \*10% Significance.

Sources: data taken form NSE and computed by author.

In summary, Banking is fundamentally interconnected with individuals, industries, and the broader economy, serving as an essential conduit for economic activity, analogous to the role of blood in the human body. This study highlights the differential impacts observed in the banking sector before and after the onset of the COVID-19 pandemic. Data were segmented into two distinct periods, each encompassing 200 days.

The analysis (Table 1) reveals that the mean closing values of the Bank Index were higher during the pre-pandemic period (29,804.6127) compared to the post-pandemic period (23,605.6623). Consequently, there was a notable absence of significant growth or fluctuations in the Bank Index during the pandemic, resulting in a lower average post-COVID period.

Table 2 presents the paired samples correlation for the Bank Index closing values before and after the onset of COVID-19. It shows a negative correlation (-0.144) that is statistically significant at the 1% level. This indicates that the closing values moved in opposite directions across the two periods.

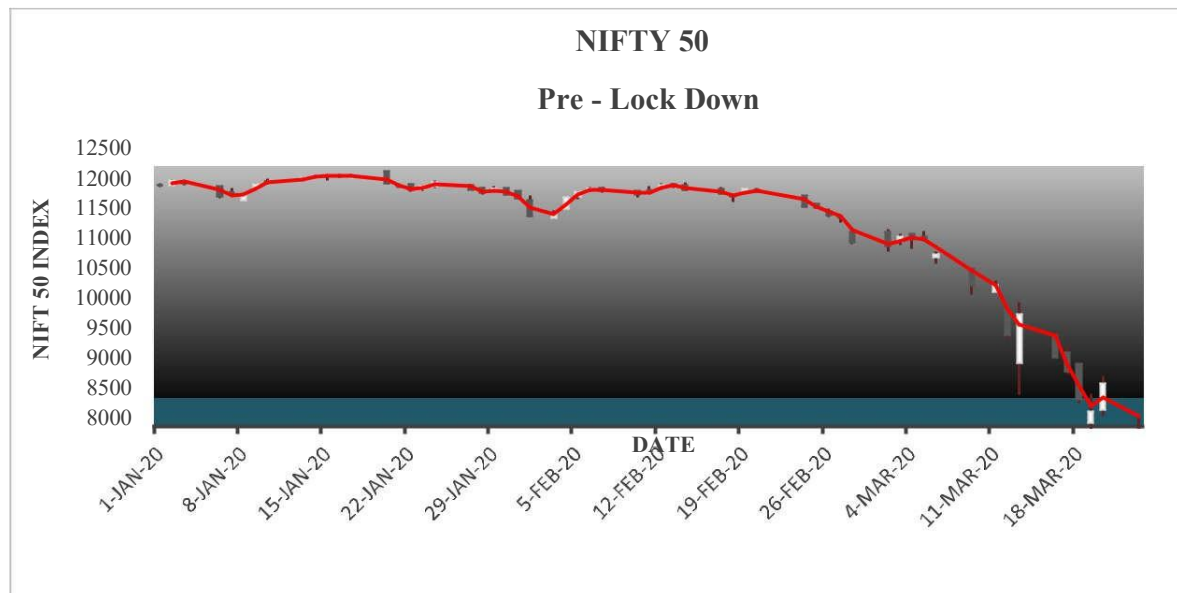
The t-test results (Table 3) further substantiate a significant difference between the Bank Index's pre- and post-COVID periods, confirming the pandemic's substantial impact on the banking sector's market performance.

### **Event Study Method**

The analysis component of the study is systematically divided into three distinct segments, each reflecting a specific phase of the COVID-19 pandemic and its corresponding governmental responses:

**Pre-Lockdown Phase:** This initial segment covers the period from January 1, 2020, to March 23, 2020. During this phase, the analysis focuses on the stock market behavior and the performance indices before any restrictive measures are implemented. This phase provides a baseline understanding of the market conditions immediately preceding the pandemic restrictions.

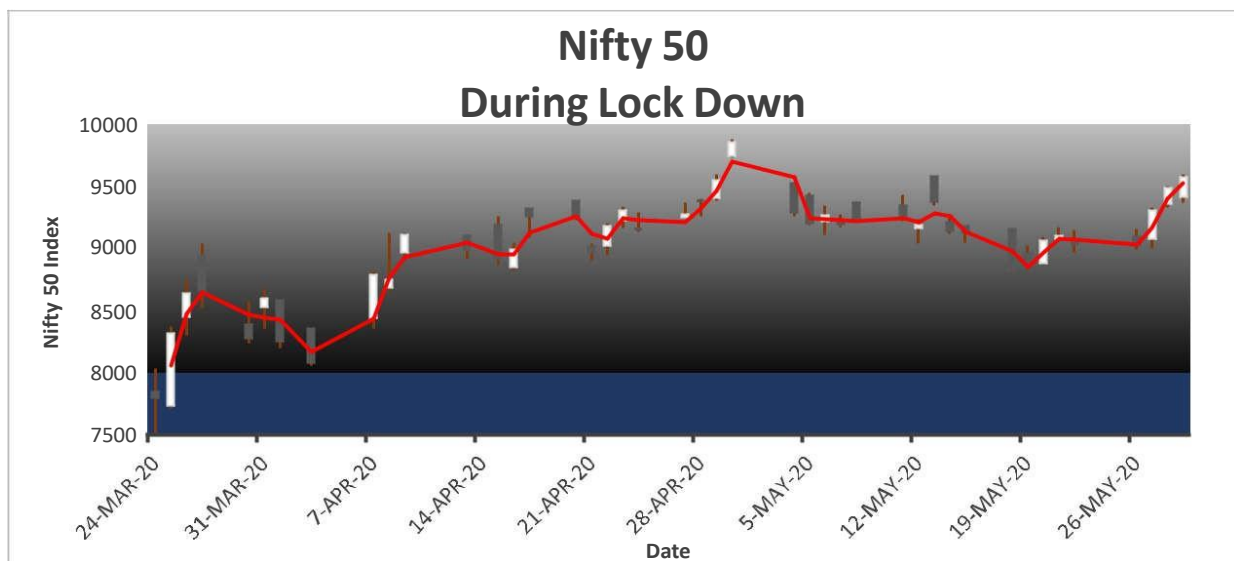


**Fig: 1 Time plot of NSE Nifty 50 prices before the announcement of Lockdown**

**Data Source:** (National Stock Exchange of India, 2023)

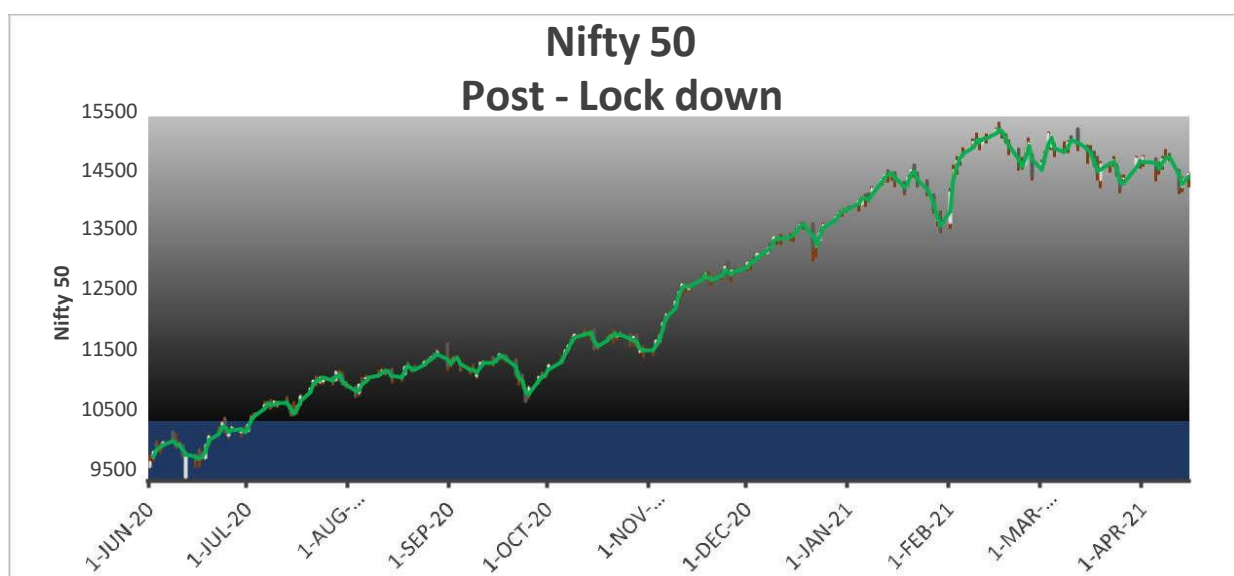
**Complete Lockdown Phase:** The second segment spans from March 24, 2020, to May 30, 2020.

This interval marks the enforcement of stringent lockdown measures across India to curb the spread of the virus. The analysis during this phase concentrates on the immediate impact of these measures on the stock market, particularly observing how market dynamics changed under severe mobility and economic constraints.

**Fig 2: Time plot of NSE Nifty 50 prices after the announcement of complete Lockdown**

**Data Source:** (National Stock Exchange of India, 2023)

**Post-Lockdown Phase:** The final segment extends from June 1, 2020, to April 15, 2021. This phase explores the recovery or further fluctuations in the stock market as lockdown measures were gradually lifted and the economy began to reopen. This segment is crucial for assessing the market's resilience and the banking sector's adjustment to the new normal post-lockdown.

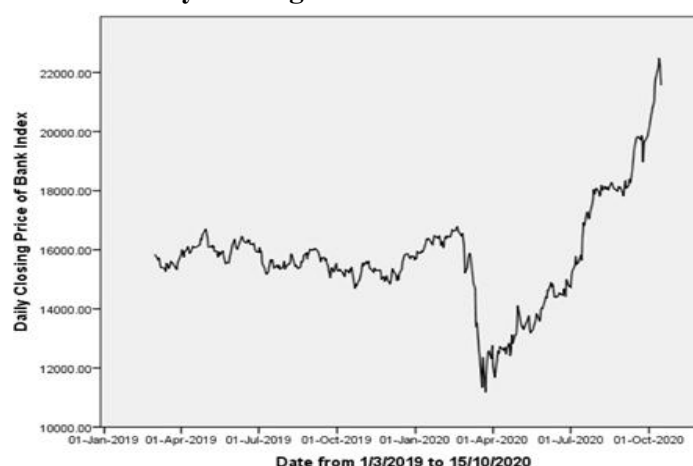
**Fig 3: Time plot of NSE Nifty 50 prices post-lockdown**

Date

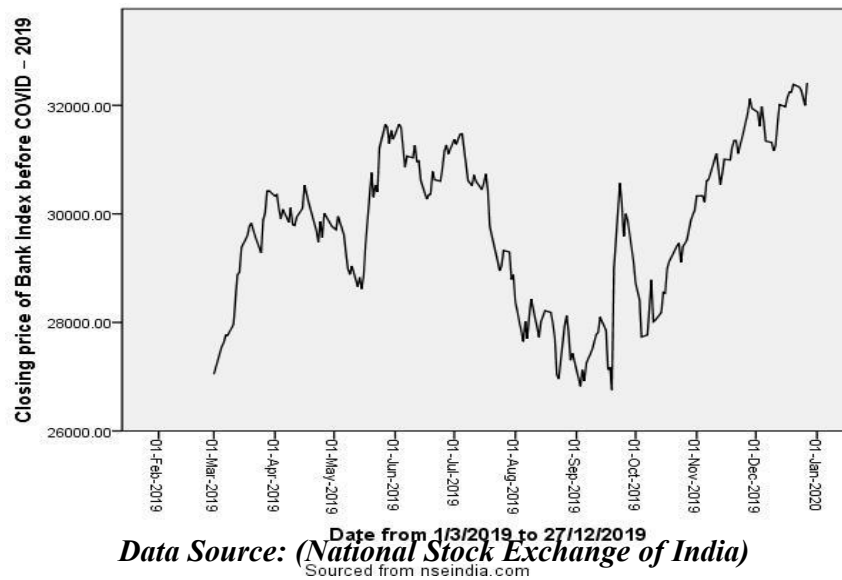
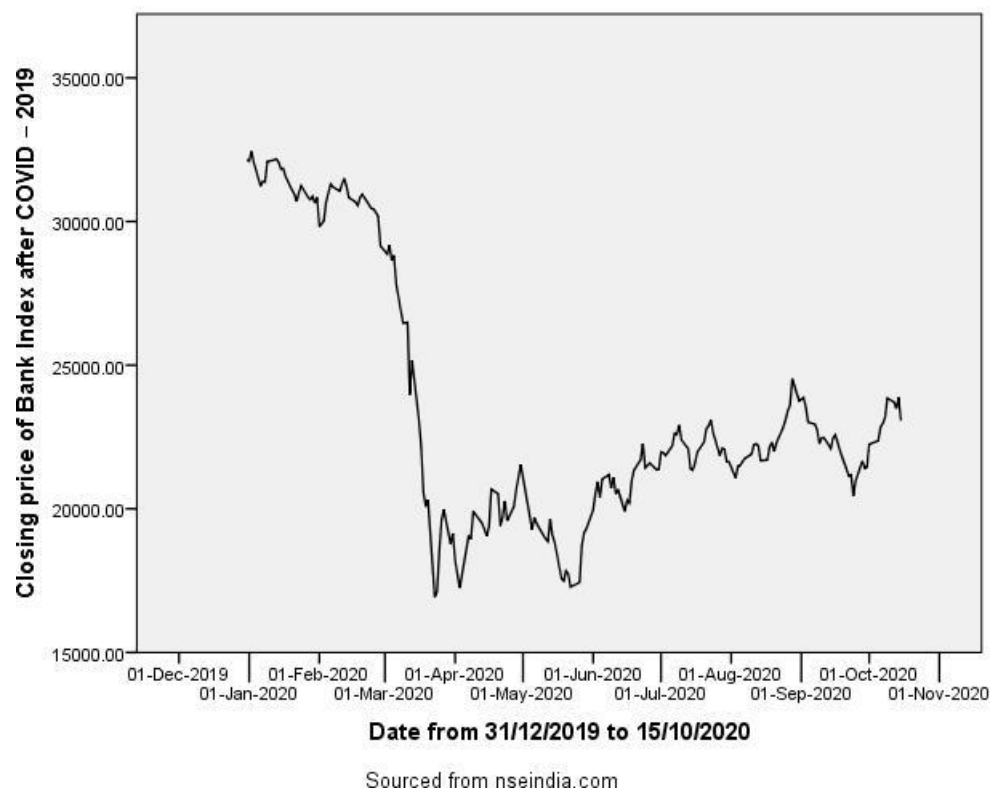
***Data Source: (National Stock Exchange of India, 2023)***

Based on the above data, it is concluded that The novel coronavirus, COVID-19, has had a profound negative impact on global economies and financial markets worldwide. Despite an initial sharp decline during the Pre-Lockdown phase, driven by investor fear and negative sentiment, the market made a strong recovery in both the Lockdown and Post-Lockdown phases, ultimately reaching record highs. This rebound was significantly supported by the government's economic stimulus package, designed to help the country navigate the COVID-19 crisis and the rollout of vaccines, which significantly bolstered investor confidence in the Indian stock market. However, with the looming threat of a second wave of COVID-19, market volatility has spiked once again. On April 11, 2021, amidst a resurgence of virus cases, investors faced substantial losses, with wealth dropping by approximately Rs. 8 lakh crore as both the BSE and NSE experienced intense selling pressure. Concurrently, India's Volatility Index (VIX) saw a marked increase from 16.17% to 22.99%, reflecting the heightened uncertainty and risk in the market.

**CHART 1 Daily Closing Price of Bank Index**



***Data Source: (National Stock Exchange of India)***

**Chart 2 Closing values of Bank Index before COVID–2019****Chart 3 Closing values of Bank Index after COVID–2019**

***Data Source: (National Stock Exchange of India)***

In Summary, The event study method segment of the research systematically analyzes the Nifty Bank Index's performance during three distinct COVID-19 pandemic phases: pre-lockdown, lockdown, and post-lockdown. The pre-lockdown phase, from January 1 to March 23, 2020, shows a sharp decline in stock prices driven by initial fears and uncertainty surrounding the pandemic. The lockdown phase, from March 24 to May 30, 2020, demonstrates initial market stabilization and resilience despite severe economic constraints. The post-lockdown phase, from June 1, 2020, to April 15, 2021, reveals a robust market recovery spurred by significant government stimulus measures and improving investor sentiment, ultimately leading to record highs.

Charts illustrating these phases underscore the dramatic market fluctuations, with the pre-lockdown phase marked by steep declines, the lockdown phase showing stabilization, and the post-lockdown phase depicting a strong recovery.

This analysis highlights the profound impact of COVID-19 on market dynamics, showcasing the initial negative sentiment followed by a resilient recovery, supported by government interventions and improved market confidence. The findings emphasize the importance of timely and effective policy measures to foster market stability and recovery. Furthermore, the study provides valuable insights for future crisis management, demonstrating how coordinated efforts between governments, central banks, and market participants can mitigate economic disruptions and support financial resilience.

This comprehensive analysis of the Nifty Bank Index across the three COVID-19 phases underscores the critical interplay between market sentiment and policy interventions during unprecedented crises. It illustrates how investor behavior evolved from fear-driven sell-offs in the

pre-lockdown phase to cautious optimism during the lockdown and eventual confidence in the post-lockdown phase.

### **Technical Analysis (Summary)**

In Summary, The technical analysis part offers a comprehensive exploration of the Nifty Bank Index during different market phases, specifically emphasizing the initial stages of the COVID-19 pandemic and its subsequent consequences. During the initial phase of the pandemic, there was a notable instability in the market, as evidenced by indicators like Exponential Moving Averages (EMAs), Relative Strength Index (RSI), and Moving Average Convergence Divergence (MACD), all indicating a distinct downward trend. The market underwent sharp declines and short-lived recoveries, marked by heightened trading volumes and substantial price fluctuations. This era highlighted the significance of employing strategic trading methods, such as initiating short positions when exponential moving averages intersect and utilizing stop-loss orders to proficiently handle risks.

The analysis encompasses historical periods, emphasizing the market's reaction during various economic circumstances, such as the global financial crisis and subsequent periods of recovery. The post-COVID bull rally showcased the market's robustness and investor trust, as significant profits and temporary corrections indicated responsive retracements rather than fundamental changes. During these periods, the analysis of trading volume showed that there was a high level of market activity, highlighting the important role that technical indicators play in guiding investment choices. The chapter emphasizes the importance of being watchful, flexible, and having strong strategies for managing risks in order to effectively navigate and take advantage of changing market conditions.

## Discussion and Findings

- The COVID-19 pandemic triggered significant volatility and a sharp decline in the Nifty and Bank Nifty indices, with the Bank Nifty's mean closing values dropping from 29,804.61 to 23,605.66.
- The Reserve Bank of India and the Government of India's fiscal and monetary interventions and the vaccine rollout stabilized and helped the Nifty and Bank Nifty indices recover, restoring investor confidence.
- The Reserve Bank of India and the Government of India's fiscal and monetary interventions, along with the vaccine rollout, stabilized and helped the Nifty and Bank Nifty indices recover, restoring investor confidence.
- Technical analysis indicators like moving averages, RSI, Fibonacci retracement levels, and Bollinger Bands effectively identified recovery patterns and trends, aiding investors in navigating market volatility during and after the pandemic.
- The post-pandemic recovery of the Nifty and Bank Nifty indices showed robust and enduring growth with brief corrections, highlighting market resilience and effective policy measures.
- The study's findings highlight the importance of policy interventions and technical analysis in market recovery during global crises, informing future decision-making and risk management strategies.

## Implications

1. Enhanced Understanding of Market Behavior: The study shows that technical analysis indicators like moving averages, RSI, Fibonacci retracement levels, and Bollinger Bands can predict market

movements during the Nifty and Bank Nifty indices' decline, recovery and long-term trends amid COVID-19 volatility.

2. Policy Formulation: The study shows that RBI and Indian government fiscal and monetary interventions stabilized and recovered markets, providing valuable insights for policymakers to develop crisis-response strategies.

3. Investment Strategies: The study emphasizes using technical analysis tools such as moving averages, RSI, Fibonacci retracement levels, and Bollinger Bands, along with stop-loss orders and portfolio diversification, to manage market volatility and make informed investment decisions

4. Banking Sector Resilience: The findings indicate that banks faced challenges and opportunities during and after the pandemic, highlighting the need for improvements in risk management and digital transformation to handle economic shocks better and enhance performance.

5. Market Recovery and Sustainability: The indices' post-pandemic recovery patterns and sustained upward trends indicate market resilience and policy effectiveness, providing long-term investors with confidence in market recovery and growth.

6. Future Research Directions: The study highlights gaps in the literature, suggesting further research on pandemics' impacts on specific indices and sectors in different regions, including long-term effects and emerging technologies in financial market recovery.

### **Recommendations**

1. Investors should use risk management strategies like stop-loss orders, portfolio diversification, balanced portfolios, and appropriate risk thresholds to mitigate losses during market volatility.

2. Long-term investing in fundamentally strong sectors and companies with proven recovery and growth records can enhance portfolio stability and returns.



3. Policymakers should design future crisis-response strategies based on successful fiscal and monetary interventions during the COVID-19 pandemic, emphasizing timely and coordinated measures for market stabilization.
4. Promoting digital transformation and technological advancements within the financial sector can improve efficiency and resilience, encouraging the adoption of digital banking, fintech solutions, and robust cybersecurity measures.
5. Future research should explore long-term impacts and various technical analysis tools and compare regions and economic contexts to understand the pandemic's global market effects.
6. Including behavioral finance in studies can provide insights into investor behavior and market sentiment during crises, improving financial models.
7. Sector-specific analyses can reveal unique recovery patterns and challenges, helping identify growth and resilience opportunities beyond the banking sector.
8. Banks should enhance risk management with comprehensive assessment frameworks and stress testing to handle future economic shocks better.

### **Limitations of Study**

1. Data Scope and Timeline: The study examines the pre-, pandemic, and post-pandemic periods. This short timeframe may miss long-term market trends and behaviors.
2. Selection of Technical Indicators: The study focuses on technical analysis indicators such as moving averages, RSI, Fibonacci retracement levels, and Bollinger Bands. Other indicators and advanced technical analysis methods may provide additional insights.
3. Policy Intervention Analysis: Qualitative evaluation of fiscal and monetary policies is based on policy documents and market impact. The study may not fully analyze the impact of interventions or other economic factors.

4. Sector-Specific Analysis: • The study focuses on the Nifty and Bank Nifty indices but does not analyze sector-specific data. Different sectors may have recovered differently from the pandemic.

5. Geographical Focus: The study pertains to the Indian stock market, specifically the Nifty and Bank Nifty indices. Findings may not apply to other regions or global markets with different economic structures and regulations.

### **Future Study**

1. Future studies should extend the timeframe to assess the pandemic's long-term impacts on the Nifty and Bank Nifty indices, highlighting recovery trends and the effects of fiscal and monetary policies.

2. Comparing the COVID-19 pandemic to previous financial crises (e.g., 2008) can reveal differences and similarities in market behavior, policy responses, and recovery patterns, enhancing understanding of crisis impacts and policy effectiveness.

3. Expanding research to multiple countries can provide a global perspective on the COVID-19 pandemic's impact on financial markets. Comparing the Nifty and Bank Nifty indices with similar indices in other economies can highlight different market responses and recoveries.

4. Future studies should analyze the pandemic's impact on various sectors, such as technology, healthcare, manufacturing, and consumer goods, to identify sector-specific recovery patterns and challenges. This would provide a nuanced understanding of market dynamics and inform targeted policy measures.

5. Comparing different sectors' resilience and recovery trajectories can reveal how sectoral characteristics influenced their performance during the pandemic, helping investors diversify their portfolios by identifying sectors with higher resilience and growth potential in future crises.

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