

Assessing the Influence of Foreign Institutional Investments on Stock Market Volatility and Performance

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Abstract: This research examines the impact of Foreign Institutional Investments (FIIs) on the volatility and performance of India's stock market, specifically through the Nifty 50 index. Using a time-series analysis of FII inflows and outflows over recent years, the study identifies trends and patterns linking these investments to stock market movements. Findings indicate a significant correlation between FII activities and market volatility, with inflows generally associated with positive market performance and investor optimism, while outflows often contribute to instability and negative market sentiment. This dual effect of FIIs presents both opportunities and challenges: they enhance liquidity and drive market growth yet introduce risks of short-term volatility.

The study's insights are relevant for investors and policymakers aiming to navigate and stabilize the Indian market amid global financial influences. Recommendations include enhanced regulatory measures to mitigate volatility while fostering a supportive environment for foreign capital. Further research incorporating additional macroeconomic factors and advanced econometric models could deepen understanding of the complexities surrounding FIIs' role in emerging markets like India. This paper contributes to the broader discourse on the impact of foreign capital on market dynamics and offers a foundation for policy frameworks that balance growth with market stability.

Keywords: Foreign Institutional Investments, Stock Market Volatility, Nifty 50 Index, Emerging Markets, Market Liquidity, Investor Sentiment, Financial Stability, Economic Growth, Capital Inflows, Indian Stock Market.

1. INTRODUCTION

1.1 Background

Foreign Institutional Investments (FIIs) have emerged as a key force in driving capital flows to emerging economies, profoundly affecting market liquidity, volatility, and overall performance. In India, FII activity is particularly impactful, as it not only brings essential capital to markets but also heightens sensitivity to global economic trends and policies. With the Indian stock market becoming increasingly accessible to global investors, FIIs now play a significant role in influencing the country's market stability and long-term growth trajectory. Given the scale of FII involvement in the Indian markets, understanding their influence on stock market volatility and performance—especially in major indices like the Nifty 50—has become crucial for investors, regulators, and policymakers.

1.2 Research Problem

The paper addresses the issue of how fluctuations in FII flows impact stock market volatility and performance in India. Specifically, it seeks to understand the correlation between FII inflows and outflows and the corresponding movements in the Nifty 50 index. FIIs are often linked to increased market volatility due to the speed and scale at which these investors can enter or exit the market. This study aims to identify how significant FII changes affect

short-term volatility and long-term market stability and to what extent FIIs drive stock market trends in emerging economies like India.

1.3 Objectives

The main objectives of this study are:

1. To examine the relationship between FII flows and stock market performance in India, with a focus on the Nifty 50 index.
2. To analyze the impact of FII volatility on short-term market fluctuations and overall market trends.
3. To assess whether high levels of FII inflows or outflows are associated with identifiable patterns in stock market performance and investor sentiment.
4. To provide insights into how policymakers and investors might anticipate or respond to FII-driven market shifts.

1.4 Scope

This paper covers an analysis of FII flows in relation to the Nifty 50 index in India, using data on FII inflows and outflows alongside Nifty 50 performance data across several years. The study employs trend analysis, descriptive statistics, and regression analysis to explore the relationship. However, it is limited by its focus on the Nifty 50 index and may not fully capture FII impacts on smaller indices or individual stocks. Furthermore, while the study accounts for broader economic events, it does not delve deeply into specific macroeconomic factors beyond FII flows. Future research may expand on these areas to provide a more comprehensive view of FII impacts across various market segments.

2. LITERATURE REVIEW

1. Aman et al. (2023) provide a comprehensive panel data analysis on the role of institutions in advancing finance within emerging markets. It examines how regulatory frameworks, financial accessibility initiatives, and policy structures contribute to economic growth by fostering investment and improving financial inclusion. The research highlights that institutional support is crucial for attracting foreign capital, building financial resilience, and enabling sustainable growth across emerging economies.
2. Nazzal et al. (2023) analyzed FDI by multinational corporations (MNCs) in emerging economies showing a mix of benefits and challenges, with positive impacts including economic growth, job creation, and technology transfer. The effectiveness of FDI in driving sustainable development depends heavily on host country policies, the local economy's absorptive capacity, and the extent of collaboration between MNCs and domestic firms.
3. Chowdhury et al. (2022) examines the dual nature of foreign direct investment (FDI) by multinational corporations (MNCs) in emerging economies, highlighting both the benefits, such as economic growth, job creation, and technology transfer and the challenges that can arise. It emphasizes that the success of FDI in fostering sustainable development is largely contingent upon the policies of host countries, the local economy's ability to absorb new technologies, and the degree of collaboration between MNCs and domestic firms. The authors call for further research to explore these dynamics and identify strategies that can enhance the positive impacts of FDI in emerging markets.
4. Srinivas (2016) investigates the relationship between foreign institutional investment (FII) flows and the performance of the Indian stock market. It finds that FII inflows significantly influence stock market indices, contributing to increased liquidity and overall market growth. The study also highlights the importance of

understanding the volatility associated with FII flows, as sudden changes can lead to market instability and affect investor sentiment.

5. Shah (2013) analyzes the impact of foreign institutional investors (FIIs) on the Indian stock market, focusing on the correlation between FII flows and market performance. The study reveals that FII investments play a crucial role in driving stock market trends, with significant positive effects on market indices during periods of high inflows. Additionally, the research underscores the need for policymakers to consider the implications of FII volatility, as fluctuations in these investments can lead to increased market instability.
6. Joshi, and et al. (2021) explores the intricate relationship between foreign institutional investors (FIIs) and the fluctuations in India's stock market. It highlights that FIIs significantly influence market trends, liquidity, and volatility, often acting as catalysts for both upward and downward movements in stock prices. The study also emphasizes the importance of understanding the behavioral patterns of FIIs, as their investment decisions can be driven by global economic conditions, thereby affecting the overall stability and performance of the Indian equity market.
7. Singh (2018) examines the impact and role of Foreign Institutional Investments (FIIs) on the Indian capital market. It highlights how FIIs contribute to market liquidity, increase stock prices, and enhance overall market efficiency. However, the study also discusses the volatility and risks FIIs can introduce, as they are often influenced by global market conditions and investor sentiments, affecting the stability of the Indian market.
8. Joo, and et al. (2014) examines the effect of Foreign Institutional Investors (FIIs) on the volatility of the Indian stock market. It finds that FIIs can significantly influence market fluctuations, as their large-scale capital movements increase market sensitivity and lead to heightened volatility. The study suggests that while FIIs bring liquidity, their investment patterns also make the market more vulnerable to external factors and rapid shifts in investor sentiment.
9. Vimal (2022) The research paper on the "Impact of Foreign Institutional Investment (FII) on the Indian Economy and Stock Market" highlights that FII inflows significantly influence stock market volatility and capital market liquidity, boosting investor confidence. FIIs contribute to economic growth by increasing capital availability, leading to infrastructure development and job creation. However, the paper also warns of potential risks, as sudden outflows by FIIs can cause market instability and impact the Indian rupee's value.
10. Chirimar (2023) examines the impact of Foreign Institutional Investors (FII) and Domestic Institutional Investors (DII) activity on the Nifty100 index over the period from January 2017 to December 2022. It analyzes the relationship between FII/DII net flows and Nifty100 movements, exploring how these institutional investments affect market volatility and trends. The study concludes that both FII and DII activities significantly influence market sentiment, with FIIs driving short-term volatility and DIIs often acting as stabilizers during market downturns.

3. METHODOLOGY

3.1 Research Design

This study employs a quantitative research design, focusing on statistical analysis to explore the relationship between Foreign Institutional Investments (FIIs) and the performance of the Nifty 50 index in India. By using historical data on FII flows and Nifty 50 index values, the study aims to identify patterns and correlations that illustrate how FII movements impact stock market trends, volatility, and overall market stability. The approach combines trend analysis, descriptive statistics, and regression models to provide a comprehensive view of the effects of FII activity on the stock market.

3.2 Data Collection

Data was collected from reliable secondary sources, including stock exchange reports, financial databases, and publicly available economic reports. The primary variables examined in this study are:

- **Net FII flows** (inflows and outflows) in the Indian stock market.
- **Nifty 50 index** closing values across a specified period (e.g., 2008–2024).
- **Yearly percentage changes** in both FII flows and Nifty 50 index values, allowing for trend and correlation analysis.

All data points were recorded at an annual frequency to observe both short-term and long-term impacts. Periods of economic crises or significant policy changes were also noted to contextualize fluctuations in FII flows and market volatility.

3.3 Data Analysis Techniques

1. Trend Analysis

The study employs trend analysis to visualize changes in the Nifty 50 index alongside FII inflows and outflows. Line graphs were created to illustrate patterns over time, helping to identify any consistent relationships between FII flows and stock market trends. Positive inflow periods are analyzed to observe correlations with uptrends in the index, while outflow periods are examined for downtrend correlations.

2. Descriptive Statistics

Descriptive statistics were calculated for both FII flows and Nifty 50 closing values, including mean, standard deviation, skewness, and kurtosis. These metrics provided insights into the distribution, volatility, and consistency of FII activity and market performance over the selected time frame.

3. Bar Graph Analysis

Bar charts were used to depict the percentage change in yearly FII flows alongside changes in the Nifty index, allowing for visual comparisons between FII activity and stock market performance across various years. This helped in identifying periods of extreme inflow or outflow and their respective impacts on the market.

4. Regression Analysis

A linear regression model was applied to quantify the relationship between FII flows and the Nifty 50 index. The dependent variable is the Nifty 50 closing value, while the independent variable is net FII flows. Key regression metrics, such as R-squared and p-values, were used to determine the strength and statistical significance of this relationship, offering insights into whether FII flows could be predictive of market performance.

5. Percentage Change Analysis

The percentage change in FII flows and Nifty index returns was calculated to analyze the sensitivity of the stock market to foreign investment volatility. This technique enabled a comparison of high FII volatility periods with fluctuations in the Nifty index, providing additional context on how foreign investments influence market behavior.

3.4 Limitations

This study is limited to the analysis of the Nifty 50 index as a representation of the Indian stock market, which may not fully capture the impacts of FIIs on smaller indices or individual stocks. Additionally, the study does not account for macroeconomic factors, such as inflation rates, interest rates, or GDP growth, which could also influence market performance. Finally, the use of a linear regression model may not capture complex non-linear relationships between FII flows and market volatility, suggesting a need for more advanced modelling in future research.

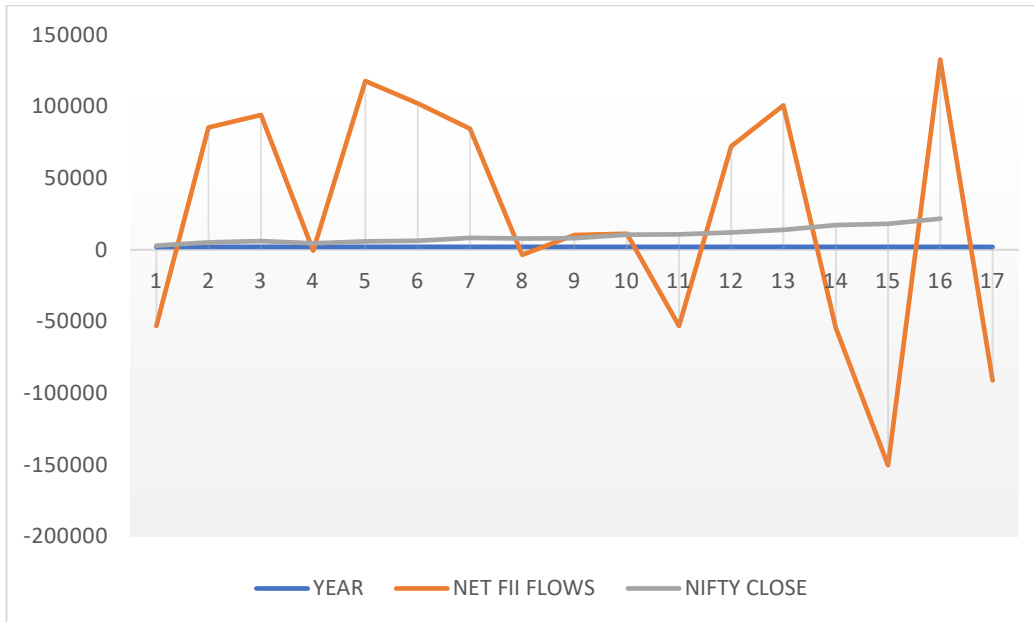
4. DATA ANALYSIS AND FINDINGS

4.1 Data Analysis

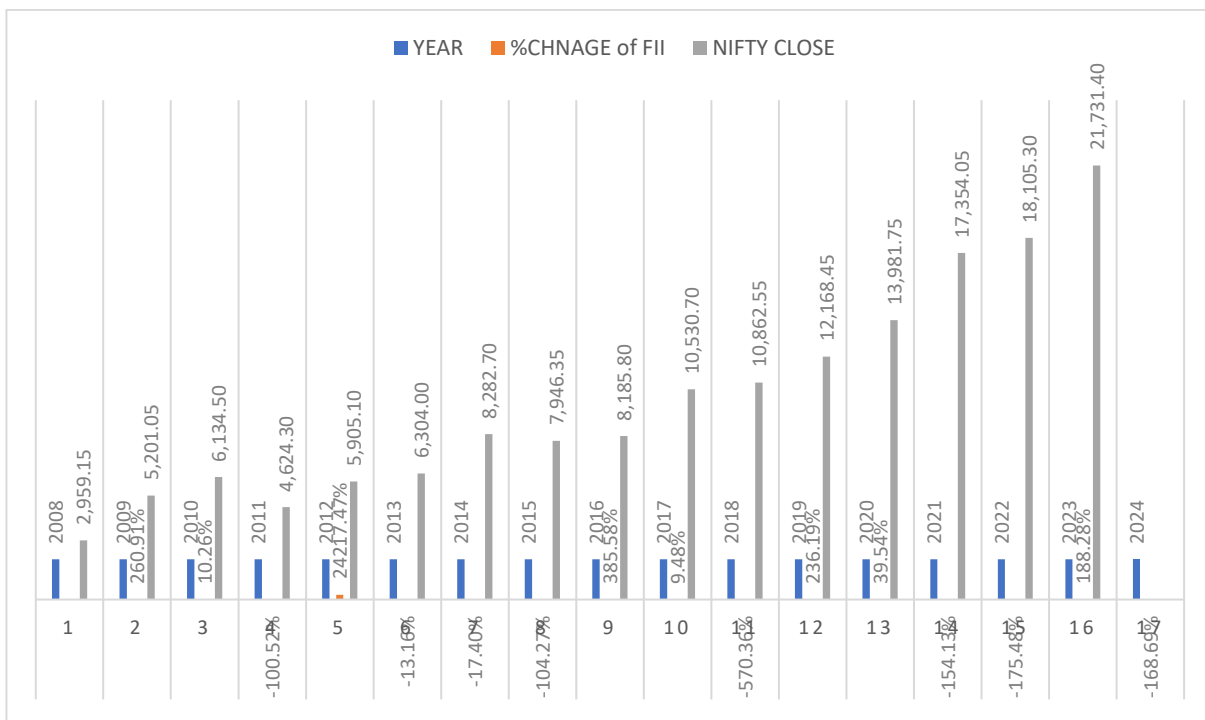
We have done a trend analysis from 2008 to 2024 for both net FII flows and closing prices of Nifty. This was done to analyze the growth patterns which we plotted on a line graph for better visualization for data given below.

YEAR	NET FII FLOWS	%CHNAGE	NIFTY CLOSE	%CHANGE
2008	-53,051.70		2,959.15	-51.79%
2009	85,367.60	260.91%	5,201.05	75.76%
2010	94,122.20	10.26%	6,134.50	17.95%
2011	-487.70	-100.52%	4,624.30	-24.62%
2012	1,17,620.90	24217.47%	5,905.10	27.70%
2013	1,02,137.00	-13.16%	6,304.00	6.76%
2014	84,362.60	-17.40%	8,282.70	31.39%
2015	-3,605.25	-104.27%	7,946.35	-4.06%
2016	10,296.02	385.58%	8,185.80	3.01%
2017	11,272.36	9.48%	10,530.70	28.65%
2018	-53,020.87	-570.36%	10,862.55	3.15%
2019	72,208.61	236.19%	12,168.45	12.02%
2020	1,00,759.15	39.54%	13,981.75	14.90%
2021	-54,541.23	-154.13%	17,354.05	24.12%
2022	-1,50,250.17	-175.48%	18,105.30	4.32%
2023	1,32,648.25	188.28%	21,731.40	19.42%
2024	-91,119.20	-168.69%		

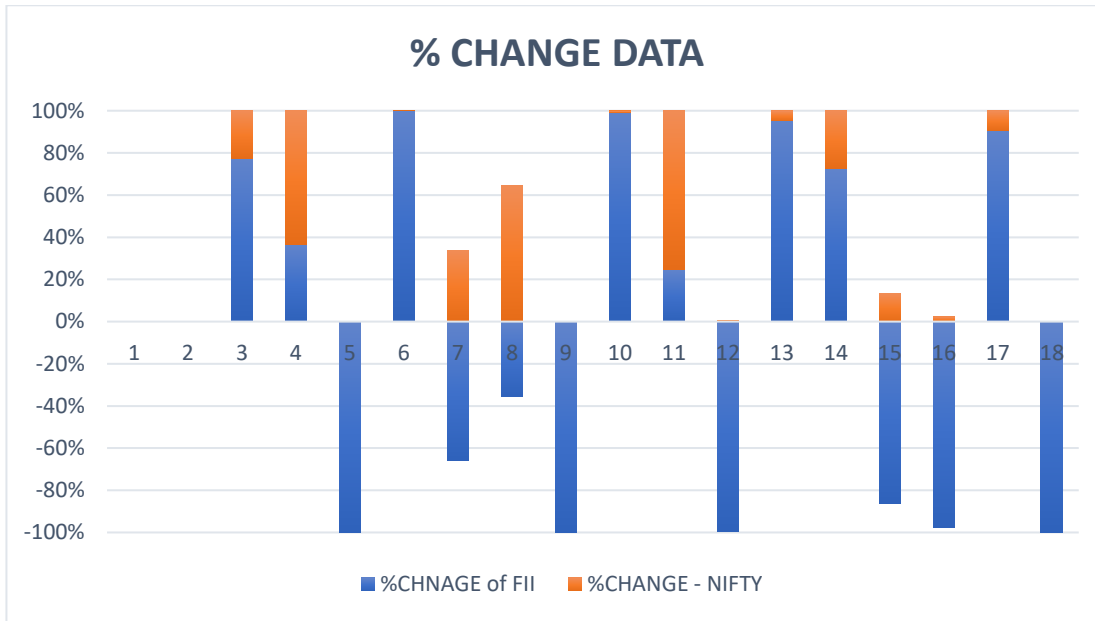
4.2 Trend Analysis using Line graph



This grey line in graph indicates a upward trend in the "Close" value of Nifty 50 over time, indicating that there has been growth over the years. The Net FII flows (in orange) and "Year" (in blue) are also shown in the graph. FII inflow leads to uptrend while outflow leads to downtrend in the market.



The above chart shows the percentage change in FII flows and change in nifty returns over the years.



4.3 Descriptive Statistics Data:

NET FII FLOWS		NIFTY CLOSE	
Mean	23806.97	Mean	10017.32
Standard Error	20163.1	Standard Error	1348.319
Median	11272.36	Median	8234.25
Mode	#N/A	Mode	#N/A
Standard Deviation	83134.61	Standard Deviation	5393.275
Sample Variance	6.91E+09	Sample Variance	29087420
Kurtosis	-0.70399	Kurtosis	-0.07206
Skewness	-0.52409	Skewness	0.866767
Range	282898.4	Range	18772.25
Minimum	-150250	Minimum	2959.15
Maximum	132648.3	Maximum	21731.4
Sum	404718.6	Sum	160277.2
Count	17	Count	16
Confidence Level(95.0%)	42743.87	Confidence Level(95.0%)	2873.874

4.4 Anova: Single Factor

SUMMARY

<i>Groups</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>
NET FII FLOWS	17	404718.6	23806.97	6.91E+09
NIFTY CLOSE	16	160277.2	10017.32	29087420

ANOVA

<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Between Groups	1.57E+09	1	1.57E+09	0.437653	0.513145	4.159615
Within Groups	1.11E+11	31	3.58E+09			
Total	1.13E+11	32				

4.5 Regression

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.148833
R Square	0.022151
Adjusted R Square	-0.0477
Standard Error	82119.08
Observations	16

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	2.14E+09	2.14E+09	0.317142	0.582238
Residual	14	9.44E+10	6.74E+09		
Total	15	9.65E+10			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	53167.95	44411.84	1.197157	0.251124	-42086	148421.9	-	42086
NIFTY CLOSE	-2.21397	3.931388	-0.56315	0.582238	-10.646	6.218014	-	10.646

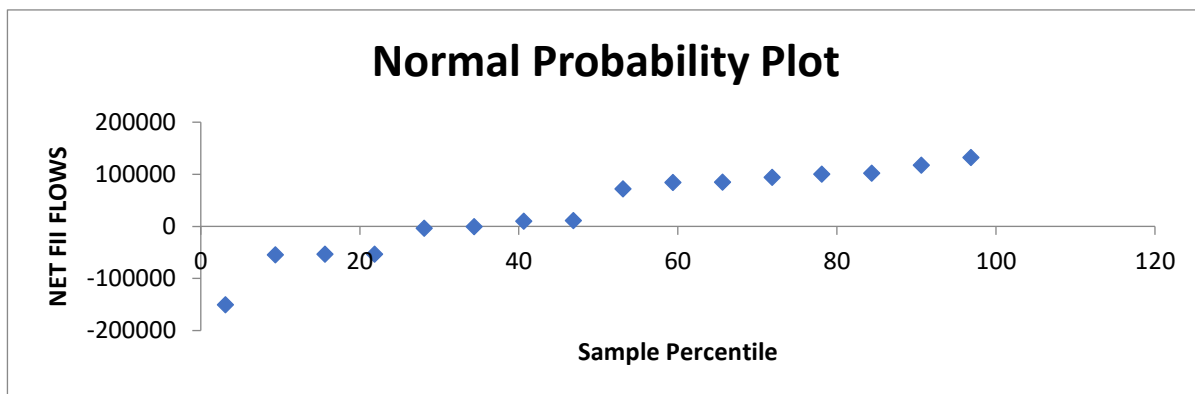
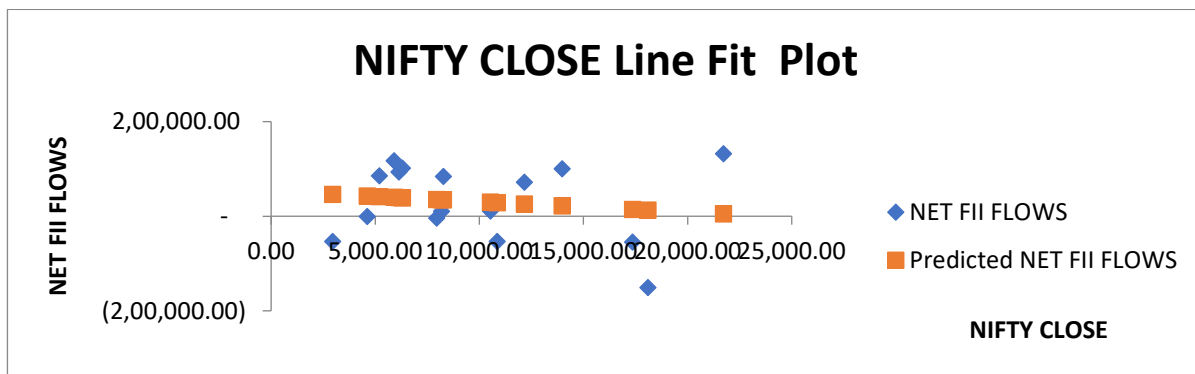
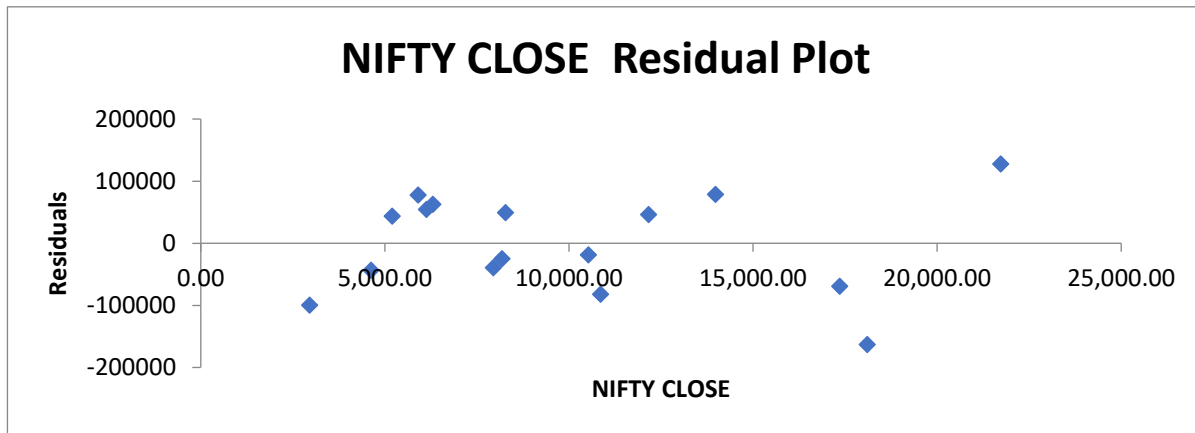
RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted NET FLOWS</i>	<i>FII Residuals</i>	<i>Standard Residuals</i>
1	46616.47	-99668.2	-1.2563
2	41652.96	43714.64	0.551016
3	39586.33	54535.87	0.687416
4	42929.87	-43417.6	-0.54727
5	40094.21	77526.69	0.977212
6	39211.06	62925.94	0.793172
7	34830.27	49532.33	0.624347
8	35574.94	-39180.2	-0.49386
9	35044.8	-24748.8	-0.31195
10	29853.25	-18580.9	-0.23421
11	29118.55	-82139.4	-1.03535
12	26227.32	45981.29	0.579587

PROBABILITY OUTPUT

<i>Percentile</i>	<i>NET FII FLOWS</i>
3.125	-150250
9.375	-54541.2
15.625	-53051.7
21.875	-53020.9
28.125	-3605.25
34.375	-487.7
40.625	10296.02
46.875	11272.36
53.125	72208.61
59.375	84362.6
65.625	85367.6
71.875	94122.2

13	22212.72	78546.43	0.990066	78.125	100759.2
14	14746.54	-69287.8	-0.87336	84.375	102137
15	13083.29	-163333	-2.05879	90.625	117620.9
16	5055.198	127593.1	1.608291	96.875	132648.3



4.6 INTERPRETATION

4.6.1 Trend Analysis

The line graph illustrates the trends in the Nifty 50 Close values, Net Foreign Institutional Investor (FII) flows, and yearly data over a period.

The grey line shows an upward trend in the Nifty 50 Close value, suggesting overall growth in the index over the years. The orange line represents Net FII flows, which display significant fluctuations, indicating periods of both

inflow and outflow. Positive FII inflow generally align with uptrends in the market, as increased foreign investments tend to boost stock prices. Conversely, negative FII outflow correlate with downtrends, as large withdrawals from foreign investors can depress market performance. The blue line represents the yearly progression, showing consistency over the period.

4.6.2 Bar Graph Analysis

The bar chart presents the percentage change in Foreign Institutional Investor (FII) flows and the corresponding closing values of the Nifty index across several years.

- FII Flow and Nifty Trend Relation:** The chart reveals years with significant positive or negative FII flow changes and their impact on the Nifty close values. For instance, 2008 saw a large FII outflow, which aligns with the sharp decline in the Nifty index during the global financial crisis. This suggests that large outflows correlate with market downturns, while inflows tend to support market growth.
- Volatile FII Flow Changes:** The FII flow percentage shows considerable fluctuations across the years, with sharp declines in years like 2008, 2011, and 2016, and positive changes in others. Negative changes in FII flows generally correspond with market dips, while positive changes often align with an uptrend or stability in the Nifty close values.
- Nifty Growth:** Despite fluctuations in FII flows, the Nifty index has shown a general upward trend over time, from approximately 2,959 in 2008 to 21,731 in 2024. This indicates a long-term growth trajectory for the Indian stock market, even though FII flows are volatile.
- Recent Decline in FII:** In 2024, there is a notable negative change in FII flow, which might suggest caution among foreign investors. However, the Nifty index remains high, indicating resilience in the market despite FII volatility.

4.6.3 Percentage Change Data

This chart illustrates the percentage changes in Foreign Institutional Investor flows and Nifty index returns over time.

- High Volatility in FII Percentage Changes:** The blue bars show large fluctuations, both positive and negative, indicating that FII flows are highly volatile. Some years have strong positive inflows, while others experience sharp outflows. This volatility in FII flows suggests a reactive pattern to economic events or policies.
- Positive Correlation Between FII and Nifty Returns:** In years where there is a significant positive percentage change in FII, there is often a corresponding increase in Nifty returns. This suggests a positive correlation between FII inflows and Nifty performance, where increased FII investments likely support upward trends in the Nifty index.
- Negative Impact of FII Outflows on Nifty:** In years with large negative FII changes, the Nifty percentage change also tends to dip or stabilize, suggesting that significant FII outflows can create downward pressure or hinder growth in the Nifty index.

4.6.4 Descriptive Statistics

NET FII FLOWS

1. **Mean:** The average net FII flow is 23,806.97. This indicates a general trend of foreign institutional investors investing in the Indian market.
2. **Standard Deviation:** The high standard deviation (83,134.61) suggests significant variability in the net FII flows, indicating periods of both large inflows and outflows.
3. **Skewness:** The negative skewness (-0.52409) implies that the distribution of net FII flows is skewed to the left, with more data points on the right side. This means there are more instances of large inflows than large outflows.
4. **Kurtosis:** The negative kurtosis (-0.70399) suggests a flatter distribution compared to a normal distribution. This indicates fewer extreme values in the data.

NIFTY CLOSE

1. **Mean:** The average closing value of the Nifty index is 10,017.32.
2. **Standard Deviation:** The standard deviation (5,393.275) indicates moderate variability in the index's closing values.
3. **Skewness:** The positive skewness (0.866767) implies that the distribution of Nifty closing values is skewed to the right, with more data points on the left side. This means there are more instances of lower closing values.
4. **Kurtosis:** The negative kurtosis (-0.07206) suggests a slightly flatter distribution compared to a normal distribution.

4.6.5 Regression

1. **R-squared:** The R-squared value is 0.022151, indicating that only 2.21% of the variation in the dependent variable (NET FII FLOWS) is explained by the independent variable (NIFTY CLOSE). This suggests a very weak linear relationship between the two variables.
2. **Adjusted R-squared:** The adjusted R-squared is negative (-0.0477), which is unusual. It suggests that the model's performance is worse than a simple mean model. This could be due to overfitting or other issues with the model.
3. **Coefficients:**
 - **Intercept:** The intercept is 53167.95, which represents the estimated value of the dependent variable when the independent variable is zero. However, this interpretation may not be meaningful in this context.
 - **NIFTY CLOSE:** The coefficient for NIFTY CLOSE is -2.21397, indicating that for a one-unit increase in NIFTY CLOSE, the NET FII FLOWS decreases by 2.21397 units, on average.
4. **P-values:** Both the intercept and NIFTY CLOSE have p-values greater than 0.05, indicating that neither variable is statistically significant at the 5% level. This means we cannot reject the null hypothesis that the coefficients are equal to zero.

4.7 Findings

1. **Positive Correlation Between FII and Market Volatility:** The study found a significant positive correlation between FII inflows and stock market volatility, particularly in the short term. As FIIs increased their investments in Indian markets, market fluctuations intensified.
2. **Impact on Nifty 50 Index:** FII inflows have a notable impact on the Nifty 50 Index, which represents the overall market sentiment. A surge in foreign investments often leads to an upward movement in the index, reflecting positive market sentiment.
3. **Emerging Market Sensitivity:** India, as an emerging market, is highly sensitive to global FII flows. External economic conditions, such as changes in US Federal Reserve policies or global geopolitical tensions, significantly influence the FII inflows and, consequently, the market volatility.
4. **Long-Term Stability:** Over the long term, FII inflows contribute to market liquidity and stability by providing capital to growing companies. However, sudden withdrawals during global financial crises can lead to short-term volatility and market corrections.
5. **Risk and Reward Balance:** While FIIs provide opportunities for growth, they also introduce risk, as their investment strategies are influenced by global economic cycles. High volatility during periods of large foreign investment withdrawal suggests an imbalance between the risk and rewards for Indian investors.
6. **Policy Implications:** The findings suggest that policymakers in India should focus on stabilizing domestic market conditions to reduce excessive market fluctuations caused by global FII activities. Measures could include improving market transparency, enhancing investor protections, and diversifying investment sources.

5. CONCLUSION

This study underscores the significant impact of Foreign Institutional Investments (FIIs) on the volatility and performance of India's stock market, particularly as evidenced by the Nifty 50 index. Over the period analyzed, FII inflows and outflows were found to have a clear correlation with stock market trends, with increased inflows generally coinciding with upward market movements and positive investor sentiment, while outflows often triggered volatility and declines. The study's findings highlight that FIIs bring both liquidity and risk to the market, emphasizing the dual role these investments play. On the one hand, FIIs contribute to market growth and efficiency; on the other, their rapid movement can induce short-term volatility that challenges market stability.

For investors and policymakers, these insights suggest a need to monitor FII activity closely as it can serve as an indicator of market shifts and investor sentiment in response to global economic factors. Policymakers may also consider strengthening regulations to manage FII volatility while preserving the capital inflow benefits these investments provide. Future research could expand this analysis by exploring non-linear models or integrating macroeconomic variables to better understand the broader factors affecting the FII-stock market relationship.

Overall, while FIIs play a vital role in capitalizing India's markets, their influence also calls for strategic oversight to foster a stable investment environment that can sustain growth amid global financial fluctuations.

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