STOCK MARKET ANALYSIS REPORT

REPORT BY:

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PROJECT DESCRIPTION:

The Stock Market Analysis Dashboard project entails using Power BI to create an interactive and informative visualization tool. The project focuses on analyzing and interpreting stock market data to provide important insights into many areas of stock performance, trends, and industry comparisons. The dashboard intends to help users make informed investment decisions, spot patterns, and understand market dynamics by using important columns such as Company Name, Industry, Last Traded Price, Change, Percentage Change, and others. The project enables users to investigate stock behavior, track historical trends, compare industry performance, and acquire a comprehensive understanding of the stock market environment using interactive charts, graphs, and visualizations.

DATASET DESCRIPTION:

Here's a quick rundown of each column:

Company Name: The name of the company whose stock is being studied.

Symbol: A one-of-a-kind abbreviation or code issued to a company's stock for trading purposes.

Industry: The industry or category to which the company belongs, defining the nature of its operations.

Series: A code that indicates the stock's trading series (e.g., EQ for Equity, BE for Book Entry).

Open: The price at which a stock begins trading at the start of a trading session.

High: The stock's highest trading price during the trading session.

Low: The stock's lowest trading price during the trading session.

Last Traded Price: The stock's most recent price before the trading session finished.

Previous Close: The previous trading session's closing price for the stock.

Change: the variation between the current day's opening price and the prior day's closing price.

Percentage: The variation in percentage between the current day's opening price and the prior day's closing price.

Share Volume: The total number of shares of the company's stock traded during the trading session.

Value (Indian Rupee): The market value of the company's outstanding shares, represented in Indian Rupees.

52-Week High: The highest price at which the stock has traded in the last 52 weeks.

52-Week Low: The lowest price at which the stock has traded in the last 52 weeks.

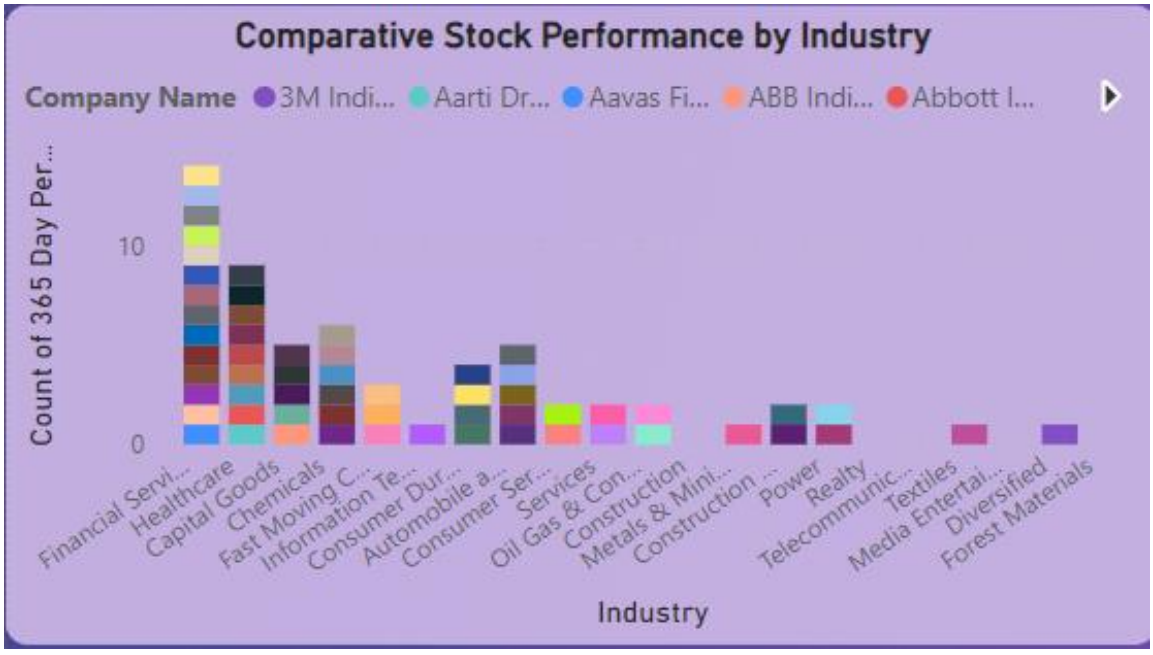
365 Day Percentage Change: The percentage change in stock price over the previous 365 days, demonstrating how the stock performed over a year.

30 Day Percentage Change: The percentage change in stock price over the previous 30 days, demonstrating the stock's short-term performance.

ANALYSIS REPORT:

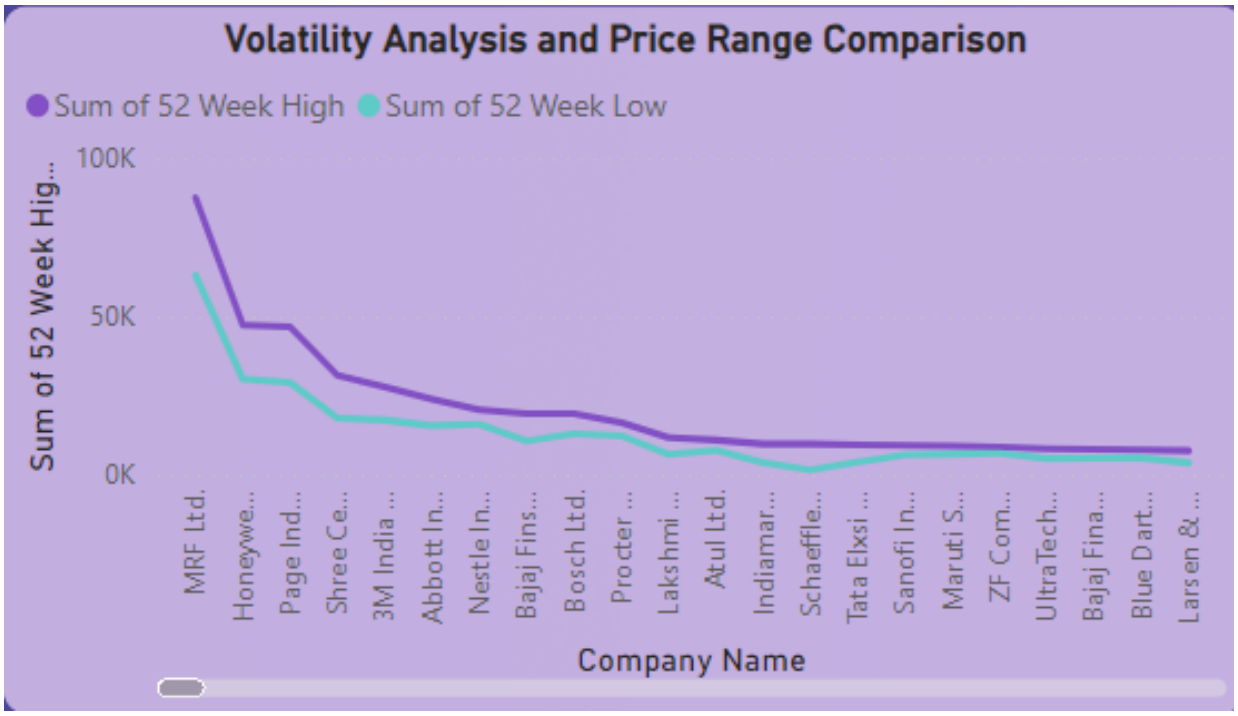
1. Comparative Stock Performance by Industry: Analyzing how different industries' stocks have performed over the past year in terms of their 365 Day Percentage Change.

Insights: Industries such as 'Financial Services,' 'Healthcare,' and 'Chemicals' have excelled in terms of their 365-day percentage change—saying significant percentage increase over the course of a year.



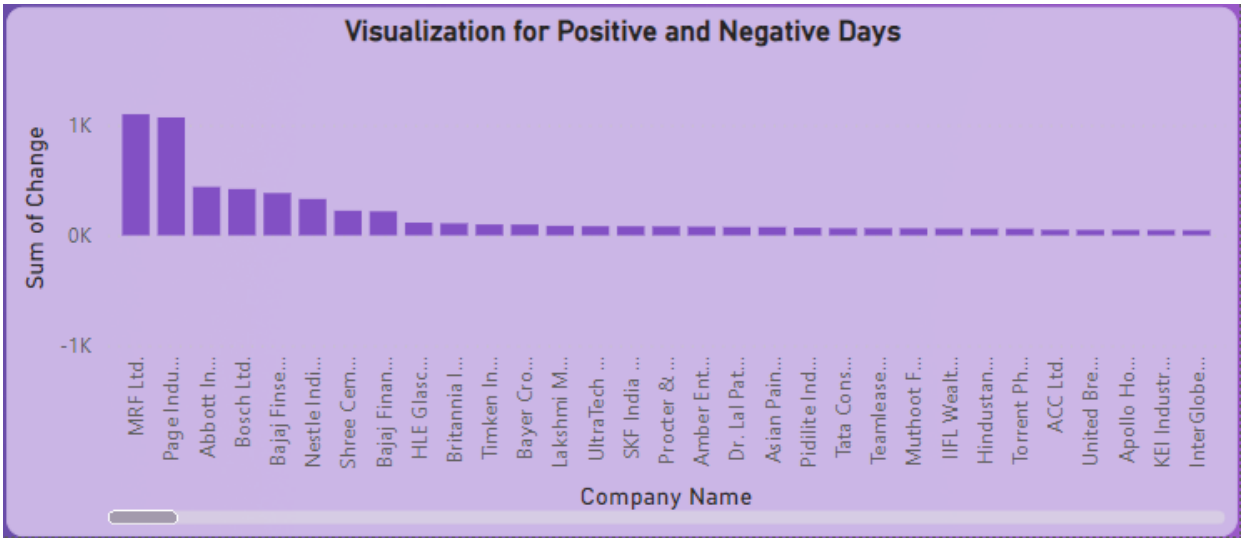
2. Volatility Analysis and Price Range Comparison: Analyzing the volatility of stocks based on their price ranges and visualizing their 52-Week High and 52-Week Low.

Insights: According to the analysis, 'MRF Ltd.' stands out with the most extensive price ranges, considering both its 52-Week high and 52-Week low figures.



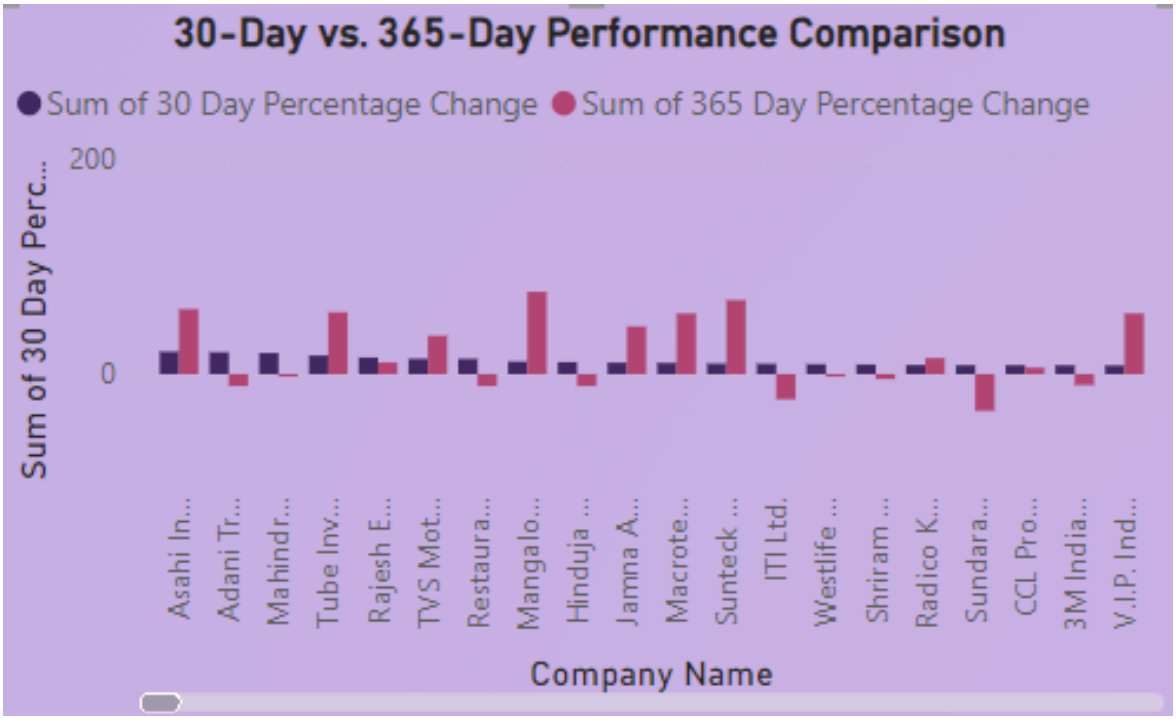
3. Visualization for Positive and Negative Days: Analyzing the distribution of positive and negative changes for stocks and seeing if there's a pattern.

Insights: Based on the conducted analysis, 'MRF Ltd.' has shown the most significant positive change, while 'Honeywell Automation India Ltd.' has shown the least negative change in stock performance. The observed trend shows a steady progression from the highest to the lowest change of value. These patterns are greatly aided by Power BI.



4. 30-Day vs. 365-Day Performance Comparison: comparing the short-term (30 Day) and long-term (365 Day) performance of stocks.

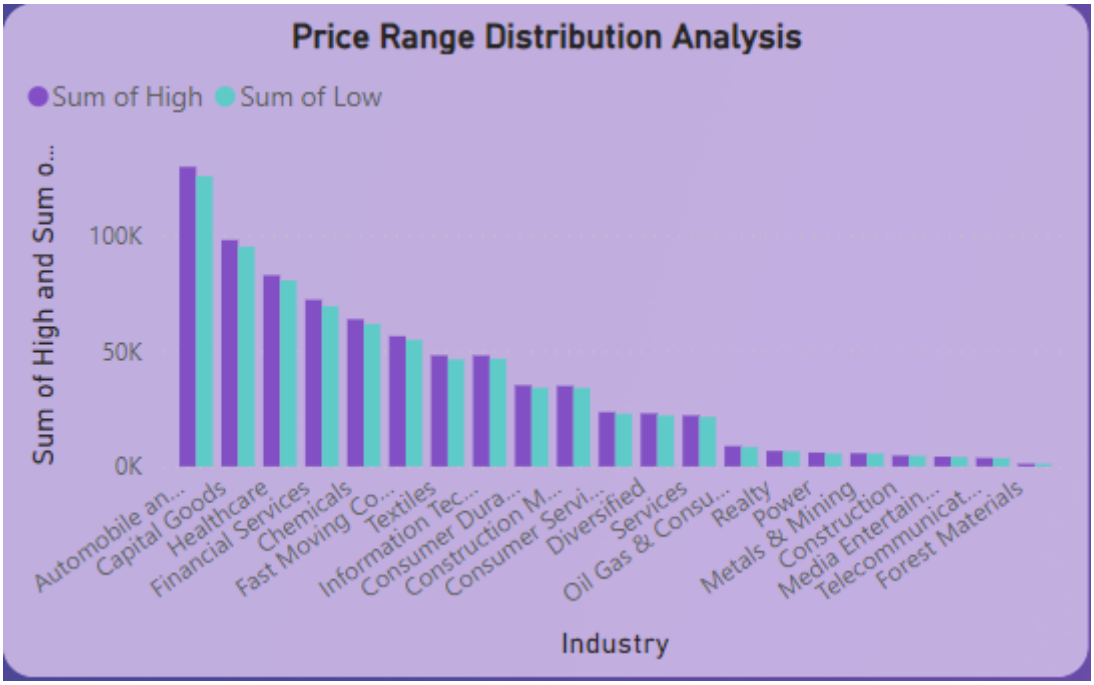
Insights: As per the analysis, several companies show disparities between their short-term and long-term performances, with certain entities showing upward trajectories, while others display declining trends across both temporal dimensions.



5. Price Range Distribution Analysis:

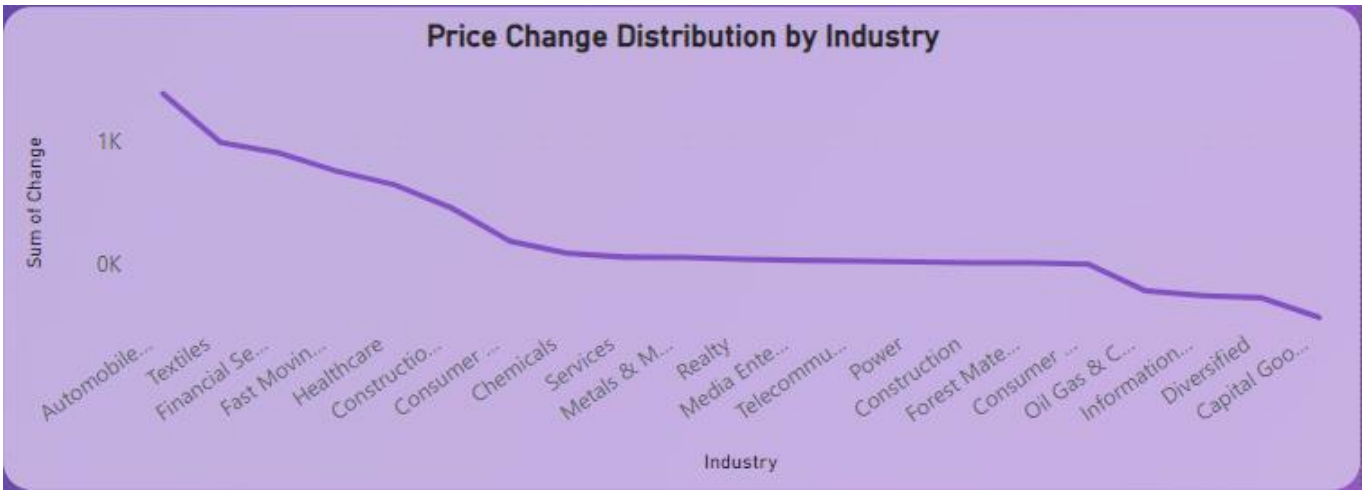
Analyzing the distribution of price ranges (difference between high and low prices) across different industries to identify which industries experience the highest price volatility.

Insights: According to the analysis, the industry of 'Automation & Auto Components' has the highest total of high and low (i.e., stock's highest trading price during the trading session and stock's lowest trading price during the trading session) showing a heightened level of price volatility within this domain.



6. Price Change by Industry: Exploring the distribution of price changes within different industries to understand how companies' stock prices have varied across sectors.

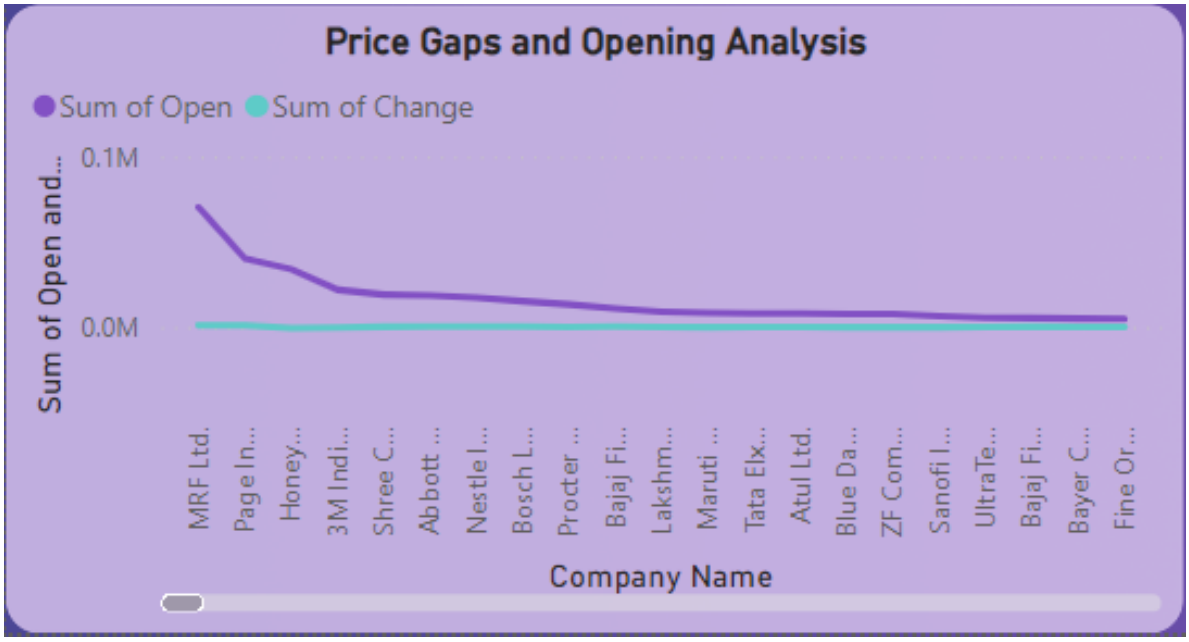
Insights: Based on the analysis, the industry encompassing 'Automation & Auto Components' exhibits notably diverse stock price patterns in comparison to other sectors.



7. Price Gaps and Opening Analysis:

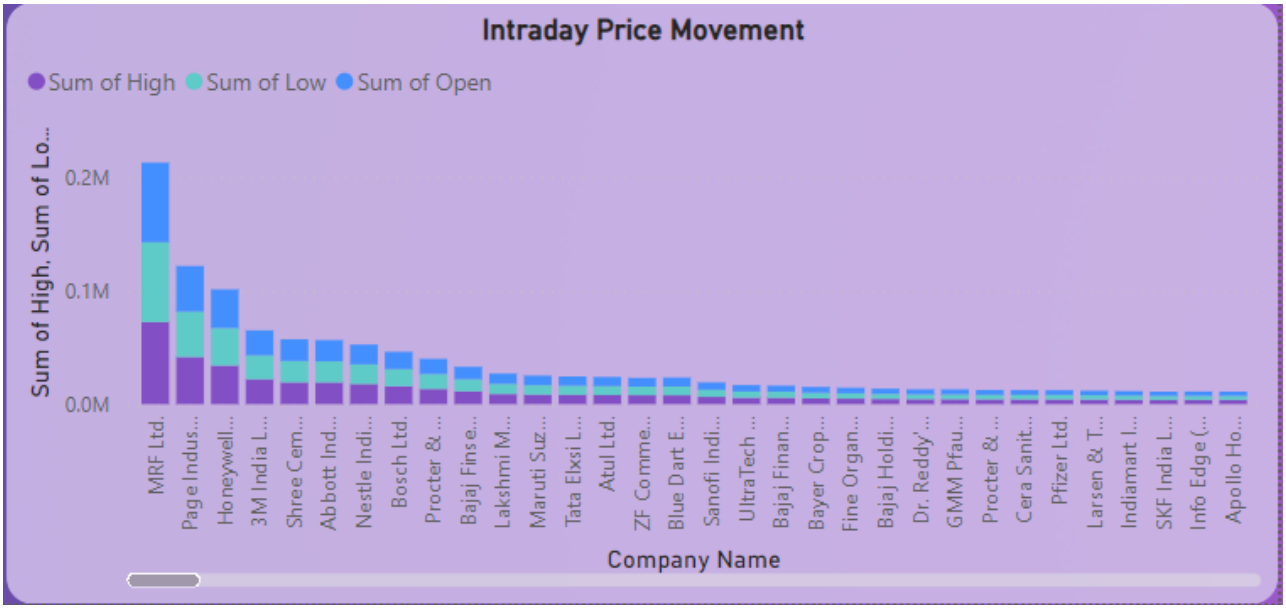
Investigating the relationship between price gaps (difference between previous close and current open) and the opening prices to identify patterns in stock market behavior.

Insights: 'MRF Ltd.,' 'Page Industries Ltd.,' and 'Honeywell Automation India Ltd.' have all shown significant variations in the difference between the previous close and the current open and the opening prices. The remaining entities, on the other hand, show just slight changes in these properties.



8. Intraday Price Movement: Investigating the intraday price movement of stocks in relation to their price changes.

Insights: As indicated by its high trading price, low trading price, and opening price, 'MRF Ltd.' demonstrates the most significant intraday price volatility in relation to its price movements.



To end the report, the analyses were thoroughly carried out using Power BI. For a richer visualization experience, exploring the interactive Power BI dashboards is recommended.

Thank you very much!