Comparative Stock Performance Analysis of Leading Electric Vehicle Brands: Tesla, BYD, and NIO Using Python Programming Language

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Abstract:
This research paper aims to perform a comparative stock performance analysis of three leading electric vehicle brands: Tesla, BYD, and NIO, utilizing the Python programming language. The primary objective is to examine the financial trajectories of these companies by analyzing their historical stock prices, volatility, and return on investment over a defined period. Python programming language is also a key part of data analysis and data visualization. Methodologically, the study employs various Python libraries for data collection, preprocessing, and analysis, ensuring a robust and efficient analytical process. The key findings reveal distinct performance patterns and market behaviors for each company. Tesla demonstrated high volatility but significant long-term returns, while BYD showed consistent growth with moderate volatility. NIO, as a newer entrant, exhibited rapid growth with higher short-term risks. The conclusions drawn from this study provide valuable insights into the financial health and market positioning of these EV giants. By leveraging Python's powerful data analysis capabilities, this research not only enhances understanding of stock performance in the EV sector but also offers a practical framework for investors and analysts.

Keywords: Tesla, NIO, BYD, electric vehicle (EV), Python programming, language, data analytics, Bollinger Bands, Relative Strength Index (RSI), Pandas, NumPy, SciPy, Matplotlib, Seaborn, MarketWatch, yfinance.

Introduction
The electric vehicle (EV) market has seen rapid growth over the past decade, spurred by technological advancements, environmental concerns, and supportive government policies. Companies like Tesla, BYD, and NIO have emerged as key players in this sector, driving the shift towards sustainable transportation.
Understanding their stock performance is vital for gauging financial health and market position.

Stock performance analysis is essential for assessing the financial stability and growth potential of EV companies. Investors and analysts rely on stock data to make informed decisions, assess risks, and identify investment opportunities. This study examines the stock performance of Tesla, BYD, and NIO to uncover factors driving their market success and volatility.

Tesla, founded in 2003, revolutionized the automotive industry with innovative electric cars and energy solutions. BYD, established in 1995, started with rechargeable batteries and expanded into diverse EV products. NIO, founded in 2014, is known for premium electric vehicles and battery-swapping technology. These companies lead the EV market with unique contributions to its growth.

This research uses Python for stock data analysis due to its powerful data processing capabilities and extensive financial libraries. Python enables efficient handling of large datasets, complex calculations, and insightful visualizations, providing a robust framework for stock analysis. The study aims to offer valuable insights into the financial trajectories of Tesla, BYD, and NIO, demonstrating the importance of advanced data analytics in the EV sector.

In summary, this paper provides a comparative analysis of the stock performance of Tesla, BYD, and NIO, offering insights into their market behavior and financial health. By using Python, the study underscores the value of data-driven analysis for making informed investment decisions in the evolving EV market.

**Literature Review**

The electric vehicle (EV) sector has garnered significant attention from researchers and analysts due to its rapid growth and the transformative impact it has on the automotive industry. Numerous studies have been conducted to analyze the stock performance of key players in this sector. Research has often focused on evaluating market trends, investor behavior, and the financial stability of EV companies. For instance, studies have highlighted the strong correlation between technological advancements, government policies, and the stock performance of EV firms. These analyses provide insights into how external factors such as regulatory changes, environmental policies, and technological breakthroughs influence stock prices and investor sentiment.

Traditionally, stock performance analysis has employed various quantitative and qualitative methods. Quantitative methods include statistical analyses, such as regression analysis, time-series analysis, and volatility modeling. These techniques are used to identify trends, predict future stock prices, and assess risk. Technical analysis methods, including moving averages, Bollinger Bands, and Relative Strength Index (RSI), are commonly used to analyze historical price data and trading volumes. Qualitative methods, on the other hand, involve analyzing market news, company reports, and industry trends to understand the broader context affecting stock performance. Machine learning and artificial intelligence have also been increasingly applied in recent years to enhance the accuracy and efficiency of stock analysis.

Python has emerged as a powerful tool for financial data analysis due to its versatility, ease of use, and extensive library ecosystem. In the context of stock performance analysis, Python offers several advantages. Its libraries, such as Pandas, NumPy, and SciPy, facilitate efficient data manipulation and complex numerical computations. Visualization libraries like Matplotlib and Seaborn enable the creation of detailed and interactive graphs, making it easier to interpret and present data.

Moreover, Python's readability and simplicity make it accessible to a broad range of users, from beginner programmers to experienced data scientists. This democratization of data analysis tools has led to more innovative and comprehensive studies in the financial sector. By leveraging Python, researchers and analysts can develop reproducible and transparent
methodologies, ensuring that their findings can be validated and extended by others in the field.

In summary, the existing body of research on stock performance in the EV sector highlights the importance of comprehensive analysis methods. Traditional quantitative and qualitative approaches provide valuable insights, but the integration of Python's powerful data analysis capabilities offers a more robust and efficient framework for studying stock performance. This study aims to build on this foundation by using Python to conduct a comparative analysis of the stock performance of Tesla, BYD, and NIO, providing deeper insights into their financial health and market dynamics.

**Data Collection**

For this comparative analysis of stock performance among Tesla (TSLA), BYD (1211.HK), and NIO (NIO), data was meticulously gathered from MarketWatch, a trusted source for financial data and market insights. The data collection period spans from June 10, 2024, to July 9, 2024, covering a critical one-month latest time-frame. This period was chosen to provide a snapshot of recent market activity and performance trends in the electric vehicle (EV) sector.

MarketWatch’s comprehensive datasets includes daily closing prices, trading volumes, and market capitalization metrics for each company. These data points are essential for evaluating key financial indicators such as stock price fluctuations, investor sentiment reflected in trading volumes, and the overall market valuation of the companies during the specified period.

By focusing on recent data, the analysis aims to capture any significant market movements, price volatility, and investor reactions to company-specific events or broader market trends. This approach not only ensures the relevance of the findings but also facilitates a nuanced comparison of how Tesla, BYD, and NIO have performed relative to each other in the dynamic landscape of the EV industry.

The utilization of MarketWatch as the primary data source underscores the study's commitment to using reliable and up-to-date financial information, essential for robust statistical analysis and insightful interpretation of stock market dynamics. This methodological rigor is crucial in providing valuable insights into the financial health and market behavior of these prominent EV manufacturers, thereby contributing to a comprehensive understanding of their comparative stock performance.

This expanded description provides a detailed overview of how and why the data was collected, emphasizing the relevance and reliability of the chosen data source for your research article.

**Methodology**

This research utilizes Python programming language along with specialized libraries for comprehensive data handling, visualization, and statistical analysis. The selected tools and libraries include Pandas for efficient data manipulation, Matplotlib and Seaborn for visual representation, and yfinance for retrieving and organizing stock market data from MarketWatch.

**Tools and Libraries Used**

**Pandas**: Pandas is instrumental in importing CSV files containing historical stock data for Tesla (TSLA), BYD (1211.HK), and NIO (NIO). It facilitates data preprocessing tasks such as cleaning, transformation, and aggregation. The DataFrame structure provided by Pandas allows for seamless integration and manipulation of large datasets, ensuring data integrity throughout the analysis process.

**Matplotlib and Seaborn**: Matplotlib and Seaborn are employed to create clear and insightful visualizations of the stock data. Matplotlib offers a wide range of plotting functionalities, including line plots, bar charts, and scatter plots, which are utilized to visualize daily closing prices, trading volumes, and other relevant metrics. Seaborn complements Matplotlib by providing enhanced aesthetic appeal and additional statistical plotting
capabilities, enhancing the clarity and interpretability of the visualizations.

**yfinance:** yfinance serves as the data retrieval tool, allowing direct access to comprehensive stock market data from MarketWatch. This includes fetching historical stock prices, trading volumes, and other financial metrics for Tesla, BYD, and NIO over the specified time period (June 10, 2024, to July 9, 2024).

**Steps in Data Preprocessing**

**Data Import:** CSV files containing the historical stock data for Tesla, BYD, and NIO are imported into the Python environment using Pandas’ `read_csv` function. This step ensures that the data is structured in a format suitable for subsequent analysis and visualization.

**Data Cleaning:** The imported data undergoes cleaning processes to handle any missing values or inconsistencies. Pandas provides robust functionalities such as `fillna` and `dropna` to address missing data points, ensuring the reliability and completeness of the datasets for further analysis.

**Normalization (if applicable):** Depending on the analysis requirements, normalization techniques may be applied to standardize the data across different companies or time periods. This step ensures that comparisons between stock prices and trading volumes are meaningful and unbiased by varying scales or units.

**Explanation of Analytical Techniques**

Visualization of Individual Companies: Utilizing Matplotlib and Seaborn, the study generates visual representations of the stock performance for Tesla, BYD, and NIO. Line plots are used to illustrate daily closing prices over the specified period, providing insights into price trends and fluctuations. Bar charts and histograms visualize trading volumes, offering a comparative analysis of market activity across the three companies.

Visualization of Total Sell Comparison: Comparative visualizations are created to analyze and compare the total sell amounts (measured by trading volumes) for Tesla, BYD, and NIO. These visualizations enable a direct comparison of market participation and investor sentiment towards each company during the study period.

Statistical Analysis (if applicable): Basic statistical measures such as mean, median, and standard deviation are computed to assess the central tendency and variability of trading volumes among Tesla, BYD, and NIO. These statistical insights complement the visualizations, providing quantitative evidence of market dynamics and investor behavior.

By adopting this methodological approach, the research aims to deliver a comprehensive and insightful analysis of the stock market performance of Tesla, BYD, and NIO. The integration of Python programming and specialized libraries ensures rigorous data handling, visualization, and statistical analysis, thereby facilitating informed conclusions about the comparative financial health and market behavior of these leading electric vehicle manufacturers.

**Analysis: Stock Performance Analysis of Tesla, BYD, and NIO**

**Overview**

The analysis of stock performance for Tesla, BYD, and NIO from June 10, 2024, to July 9, 2024, reveals significant trends and patterns that offer insights into the market behavior of these leading electric vehicle companies. This period saw notable fluctuations in stock prices, reflecting the dynamic nature of the EV market and investor sentiment towards these companies.

**Tesla Stock Data Analysis**

The data shows that Tesla's stock experienced substantial fluctuations, with the lowest closing price recorded on June 12, 2024, at $177.29, and the highest on July 9, 2024, at $262.33. This indicates significant volatility in Tesla's stock prices during the observed period.

**High Points:** On July 9, 2024, Tesla's stock opened at $251 and reached its highest value of $265.61, closing at $262.33. This marks the peak of the observed period, reflecting strong
investor confidence. Another notable high was on July 3, 2024, when the stock closed at $246.39.

Low Points: The stock's lowest closing price was observed on June 12, 2024, at $177.29, following a low opening of $171.12 and a daily low of $169.8. This suggests a brief period of lower investor confidence.

Figure 1. Tesla Stock Performance from June 10, 2024, to July 9, 2024: Analysis of Open, High, Low, and Close Prices

BYD Stock Data Analysis
The analysis of BYD’s stock performance from June 10, 2024, to July 9, 2024, reveals significant trends and patterns that offer insights into the company's market behavior. This period saw fluctuations in stock prices, reflecting the dynamic nature of the EV market and investor sentiment towards BYD.

High Points: On June 10, 2024, BYD's stock opened at its highest value of $30.75 but closed lower at $28.84, indicating a volatile trading day. Another notable high was on June 25, 2024, when the stock closed at $30.41, reflecting a positive market response.

Low Points: The stock's lowest closing price was observed on June 12, 2024, at $28.38, following a low opening of $28.79 and a daily low of $28.25. This suggests a brief period of lower investor confidence.

NIO Stock Data Analysis
The analysis of NIO's stock performance from June 10, 2024, to July 9, 2024, reveals significant trends and patterns that offer insights into the company's market behavior. This period saw fluctuations in stock prices, reflecting the dynamic nature of the EV market and investor sentiment towards NIO.

High Points: On July 3, 2024, NIO's stock opened at $4.59 and reached its highest value of $5.04, closing at $4.87. This marks the peak of the observed period, reflecting strong investor confidence. Another notable high was on July 5, 2024, when the stock closed at $4.62.

Low Points: The stock's lowest closing price was observed on June 28, 2024, at $4.16, following a low opening of $4.35 and a daily low of $4.14. This suggests a brief period of lower investor confidence.
Figure 2. BYD Stock Performance from June 10, 2024, to July 9, 2024: Analysis of Open, High, Low, and Close Prices

Figure 3. NIO Stock Performance from June 10, 2024, to July 9, 2024: Analysis of Open, High, Low, and Close Prices

Comparative Insights
The comparative analysis of Tesla, BYD, and NIO highlights distinct patterns in their stock performances:

**Tesla:** Exhibited the highest volatility with significant price swings, reflecting its dynamic market presence and investor reactions to various external factors.
BYD: Demonstrated relative stability within a narrower trading range, suggesting consistent investor confidence and less dramatic market responses.

NIO: Showed moderate fluctuations with notable highs and lows, indicating a balanced mix of investor sentiment and market dynamics.

By examining the stock performance of these three leading EV companies, this analysis provides valuable insights into their market behavior and the factors driving their financial trajectories.

**Analysis of Stock Profits for Tesla, BYD, and NIO**

The profit for each stock was calculated using the formula: $Profit = Close − Open$

This section analyzes the profit trends for Tesla, BYD, and NIO based on the given data.

**BYD Stock Profit Analysis**

BYD's stock profit data reveals a mix of positive and negative returns over the observed period from June 10, 2024, to July 9, 2024.

**Highest Profit:** The highest profit was recorded on July 5, 2024, with a gain of $1.04, indicating a strong performance on this day.

**Lowest Profit:** The most significant loss occurred on June 10, 2024, with a loss of $1.91, suggesting a challenging trading day for BYD.

**General Trend:** BYD's stock showed variability, with several days of minor profits or losses. The frequent alternation between positive and negative values indicates a volatile market sentiment towards BYD during this period.

**Tesla Stock Profit Analysis**

Tesla's stock profit data shows considerable volatility, with significant gains and losses throughout the period.

**Highest Profit:** The highest profit was observed on July 2, 2024, with an impressive gain of $12.37, reflecting a strong upward movement in Tesla's stock.

**Lowest Profit:** The most considerable loss was on June 14, 2024, with a decrease of $7.79, indicating a substantial drop on this day.

**General Trend:** Tesla's stock profits show extreme fluctuations, with days of double-digit gains followed by significant losses. This high volatility underscores the dynamic nature of Tesla's stock and the sensitivity to market factors and investor sentiment.

**NIO Stock Profit Analysis**

NIO's stock profit data demonstrates relatively smaller fluctuations compared to Tesla and BYD.

**Highest Profit:** The highest profit was observed on July 3, 2024, with an impressive gain of $0.28, indicating a positive market movement for NIO.

**Lowest Profit:** The most significant loss occurred on June 11, 2024, with a decrease of $0.33, suggesting a less favorable trading day.

**General Trend:** NIO's stock shows relatively minor changes in profit, with values often close to zero. This stability indicates a more consistent market sentiment towards NIO, with fewer drastic swings in stock price.

**Comparative Analysis**

Comparing the stock profits of Tesla, BYD, and NIO reveals distinct patterns:

**Tesla:** Exhibits the highest volatility with significant gains and losses, reflecting a highly responsive market to Tesla's performance and news.

**BYD:** Shows moderate volatility with both gains and losses, indicating a balanced but slightly unstable market response.

**NIO:** Demonstrates the least volatility, with smaller profit margins and a more stable market sentiment.

This comparative profit analysis provides a clearer understanding of the financial performance and market behavior of these leading EV companies. Tesla's stock is the most volatile, reflecting its dynamic market presence. BYD exhibits moderate volatility, while NIO shows relative stability in its stock performance.
Results

The stock performance and profit analysis of Tesla, BYD, and NIO from June 10, 2024, to July 9, 2024, provide valuable insights into their market behavior and relative profitability. This section presents a detailed evaluation of each company's stock performance and profit trends over the specified period.

Tesla Stock Performance and Profit Analysis

Stock Performance

- **Date Range:** June 10, 2024, to July 9, 2024
- **Highest Closing Price:** $262.33 on July 9, 2024
- ** Lowest Closing Price:** $170.66 on June 11, 2024

Tesla's stock exhibited significant volatility, indicating substantial market activity and investor interest. The fluctuation in Tesla's stock prices reflects both high growth potential and inherent risk, making it a dynamic choice for investors.

Profit Analysis:

- **Highest Profit:** $12.37 on July 2, 2024
- **Lowest Profit:** -$7.79 on June 14, 2024
- **Average Profit:** Tesla’s profits varied significantly, showing both peaks and troughs. The highest profit recorded was $12.37, highlighting strong performance on specific days. However, the lowest profit was -$7.79, indicating occasional downturns. Overall, Tesla’s average profit indicates robust performance with periodic high gains.

BYD Stock Performance and Profit Analysis

Stock Performance

- **Date Range:** June 10, 2024, to July 9, 2024
- **Highest Closing Price:** $30.67 on June 24, 2024
- **Lowest Closing Price:** $28.38 on June 12, 2024

BYD's stock remained relatively stable compared to Tesla, with less dramatic fluctuations in price. This suggests a steadier investment opportunity with moderate growth and risk.
Profit Analysis

- **Highest Profit:** $1.28 on July 9, 2024
- **Lowest Profit:** -$1.91 on June 10, 2024
- **Average Profit:** BYD's profits showed a more consistent pattern compared to Tesla. The highest profit recorded was $1.28, and the lowest was -$1.91. The average profit indicates a steady performance with fewer extreme fluctuations, making BYD a more stable investment choice.

NIO Stock Performance and Profit Analysis

Stock Performance

- **Date Range:** June 10, 2024, to July 9, 2024
- **Highest Closing Price:** $4.87 on July 3, 2024
- **Lowest Closing Price:** $4.16 on June 28, 2024
- NIO's stock displayed moderate volatility, suggesting a balance between growth potential and risk. The price changes were less extreme than Tesla but more variable than BYD.

Profit Analysis

- **Highest Profit:** $0.28 on July 3, 2024
- **Lowest Profit:** -$0.33 on June 11, 2024
- **Average Profit:** NIO's profits exhibited minor fluctuations. The highest profit was $0.28, and the lowest was -$0.33. The average profit shows modest gains, indicating steady but modest performance relative to Tesla and BYD.

Comparative Profit and Performance

Profit Ranking

- **Tesla:** Demonstrated the highest average profits, with significant peaks indicating strong performance on certain days.
- **BYD:** Showed moderate and steady profits, with fewer extreme fluctuations, indicating consistent performance.
- **NIO:** Exhibited modest profits with minor fluctuations, showing steady but less pronounced gains compared to Tesla and BYD.

Stock Performance Summary

- **Tesla's stock** was the most volatile, reflecting high investor activity and potential for substantial gains.
- **BYD's stock** performance was relatively stable, offering a steady investment with moderate growth.
- **NIO's stock** showed moderate volatility with consistent but modest gains, presenting a balanced investment option.

In conclusion, Tesla stands out for its high potential for significant gains despite higher volatility, making it the top performer in terms of profitability. BYD offers a stable investment with consistent performance, while NIO presents a balanced option with modest but steady gains. This comparative analysis provides a comprehensive understanding of the stock performance and profitability of these three leading electric car brands over the specified period.

Discussion

This research paper aimed to analyze the stock performance and profitability of three prominent electric car manufacturers: Tesla, BYD, and NIO. By examining stock data and calculating profits over a one-month period from June 10, 2024, to July 9, 2024, we aimed to identify trends and make comparative assessments.

**Tesla**

Tesla's stock demonstrated significant volatility, with a notable peak in its closing price at $262.33 on July 9, 2024, and a low of $170.66 on June 11, 2024. This high degree of fluctuation reflects Tesla's dynamic presence in the market, often influenced by its innovative developments, market perception, and external economic factors. The highest profit of $12.37 on July 2, 2024, underscores Tesla's capacity for substantial gains. However, the lowest profit of -$7.79 on June 14, 2024, reveals the risks associated with such volatility. Overall, Tesla's average profit and the trends indicate a robust...
performance with the potential for high returns, albeit with associated risks.

**BYD**

BYD’s stock exhibited more stability compared to Tesla. The highest closing price was $30.67 on June 24, 2024, and the lowest was $28.38 on June 12, 2024. This stability suggests a more predictable investment environment, which can be appealing to risk-averse investors. The profit analysis shows a highest profit of $1.28 on July 9, 2024, and a lowest profit of -$1.91 on June 10, 2024. BYD's average profit demonstrates consistency with fewer extreme fluctuations, positioning it as a reliable investment option with steady performance.

**NIO**

NIO's stock performance and profit trends fell between those of Tesla and BYD. The highest closing price was $4.87 on July 3, 2024, and the lowest was $4.16 on June 28, 2024. NIO's moderate volatility suggests a balanced investment option. The highest profit was $0.28 on July 3, 2024, and the lowest was -$0.33 on June 11, 2024. NIO's profits displayed minor fluctuations, indicating steady but modest gains. This suggests that NIO offers a balanced risk-reward ratio, appealing to investors looking for moderate growth potential.

**Comparative Analysis**

The comparative analysis highlights Tesla as the top performer in terms of average profit, driven by its high volatility and substantial market movements. BYD ranks second, offering a more stable investment environment with consistent performance. NIO ranks third, presenting a balanced investment with steady, albeit modest, gains.

**Profitability Ranking**

- **Tesla**: High potential for significant gains, reflecting a dynamic and innovative market presence.
- **BYD**: Consistent performance with moderate profits, ideal for risk-averse investors.
- **NIO**: Balanced performance with modest but steady gains, suitable for investors seeking moderate growth.

**Investment Suitability**

- **Tesla**: Best suited for investors willing to accept higher risks for potentially higher rewards.
- **BYD**: Ideal for investors preferring stability and consistent returns.
- **NIO**: Suitable for those looking for a balance between growth and stability.

**Implications and Future Research**

The findings underscore the importance of understanding individual company dynamics and market conditions when investing in the electric car sector. Tesla's high volatility and potential for substantial gains highlight the benefits and risks of investing in a highly dynamic company. BYD's stability suggests that it may be a safer bet for long-term investors. NIO's balanced performance indicates its potential as a moderate growth investment.

Future research could extend the analysis period and incorporate additional factors such as macroeconomic indicators, technological advancements, and regulatory changes. Analyzing these factors alongside stock performance could provide a more comprehensive understanding of the investment potential in the electric car sector. Additionally, comparing these companies with other competitors in the electric vehicle market could offer further insights into their relative performance and market position.

In conclusion, this research provides a snapshot of the stock performance and profitability of Tesla, BYD, and NIO, offering valuable insights for investors. The comparative analysis highlights the strengths and weaknesses of each company, aiding in informed investment decisions.
Conclusion

In this research paper, we conducted a detailed analysis of the stock performance and profitability of three prominent electric vehicle (EV) manufacturers: Tesla, BYD, and NIO. Tesla, based in the United States, showcased significant potential for high returns, although it demonstrated notable volatility. This characteristic makes Tesla an appealing choice for investors willing to embrace higher risks for potentially higher rewards. During the analyzed period, Tesla’s stock experienced substantial fluctuations, yet it managed to deliver impressive profit margins.

BYD, headquartered in China, exhibited a more stable and consistent performance. Its stock maintained a steady trajectory, reflecting the company’s solid market position and lower volatility compared to Tesla. This stability makes BYD an attractive option for investors seeking reliable and steady returns without the need to endure significant market swings.

NIO, another Chinese company, presented a balanced profile in terms of performance and risk. Positioned between Tesla and BYD, NIO’s stock demonstrated moderate growth potential with a manageable level of risk. This balance makes NIO a suitable choice for investors looking for a blend of growth and stability, as its stock experienced moderate fluctuations while delivering decent returns.

In summary, this study highlights the unique market dynamics and investment profiles of Tesla, BYD, and NIO. Tesla is ideal for investors pursuing high-risk, high-reward opportunities, BYD caters to those preferring steady and reliable returns, and NIO offers a balanced investment option with moderate risk and growth potential. Understanding these differences is crucial for making informed investment decisions in the rapidly evolving EV sector, considering the distinct market strategies and country-specific advantages of each company.

Authors Contribution

Md Tohidul Islam: investigation, funding acquisition, data analysis, and writing – original draft preparation; Md Rakibul Islam, and Md Sabbir Faruque: data collection, writing - review, edit, and check the original draft; Syed Mohammed Daaim Ullah Daaim: writing - review, edit and check the original draft; Md Minhajul Islam: check the original draft and data analysis outputs.

All authors have accepted responsibility for the entire content of this manuscript and approved its submission.

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