

# Performance Of US Top Stocks From 2011 To 2020

- Devi Somalinga Bhuvanesh

## Introduction

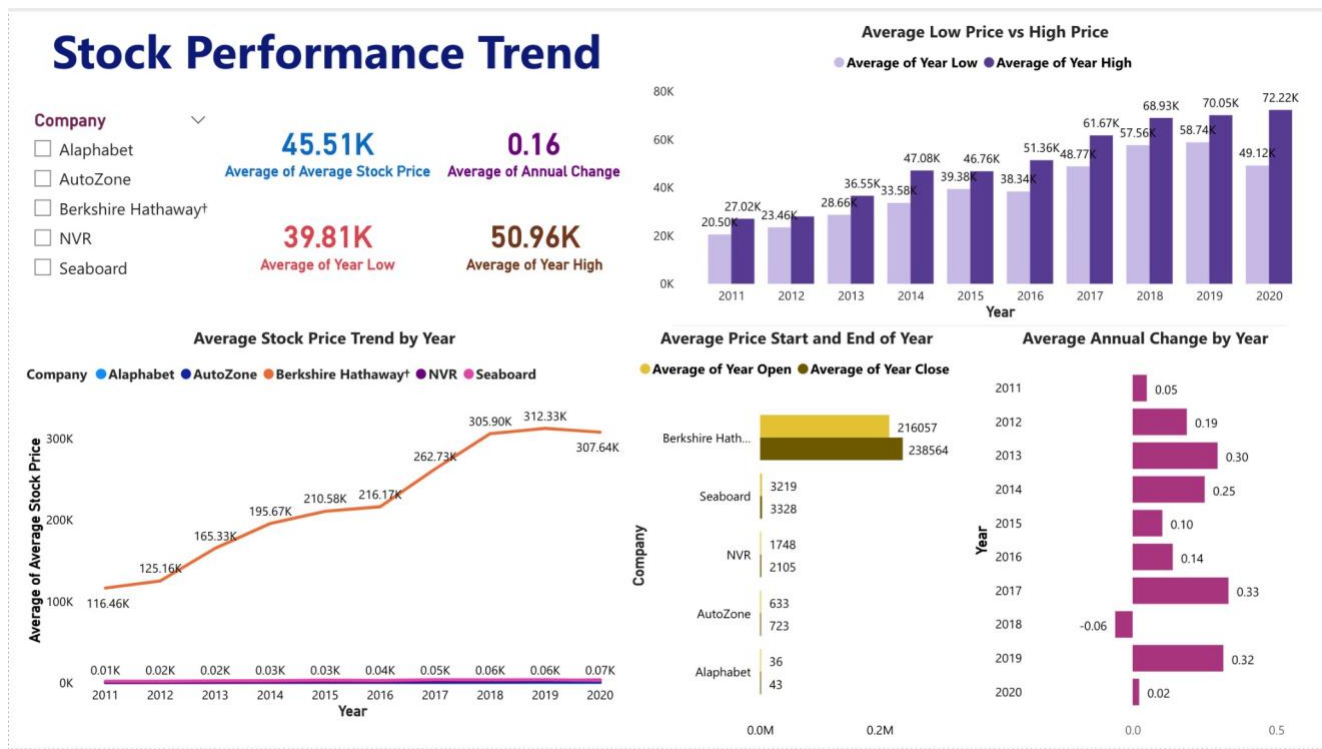
Evaluating stock performance is essential for making informed investment decisions, mitigating risks, establishing financial goals, and understanding market dynamics. The study uses a dataset obtained from Kaggle and concentrates on the performance of leading US stocks between 2011 and 2020. The chosen dataset consists of key stock details of 5 companies in 8 columns and 50 rows. It specifically investigates the highest-priced stocks, excluding those solely traded on over-the-counter markets. Analyzing this dataset enables researchers and investors to extract valuable insights into the performance of these prominent stocks, enabling them to make well-informed choices based on historical data.

Indicators	Definition
Company	Name of the company
Year	Year of stock details
Average Stock Price	The average stock price is the calculated mean of the prices of a stock over a given period.
Year Open	Year Open refers to the opening price of a stock or financial instrument at the beginning of a calendar year or a specific period.
Year High	Year High refers to the highest price reached by a stock or financial instrument during a calendar year or a particular period.
Year Low	Year Low refers to the lowest price reached by a stock or financial instrument during a calendar year or a particular period.
Year Close	Year Close refers to the closing price of a stock or financial instrument at the end of a calendar year or a particular period.
Annual Change	Annual Change refers to the percentage or absolute difference in the value or price of a stock or financial instrument between the beginning and end of a calendar year. It indicates the overall change in the stock's value over the course of a year, whether it has increased or decreased in value.

A comprehensive PowerBI dashboard was created to visualize the trend of stock performance for five companies from 2011 to 2020. The dashboard allows for easy filtering, enabling users to focus on

individual company performance and gain insights into their specific stock trends over the specified period.

Overall Dashboard of Stock Performance Trend of 5 Companies in the US



By analyzing the collective performance of all five companies, it is evident that Berkshire Hathaway consistently had the highest average stock price, reaching a peak of 312.33K in 2019, with a slight dip to 307.64K in 2020. The average stock price across all companies was 45.51K, with a high of 50.96K and a low of 39.81K.

Over the years, there has been a steady increase in the average lowest stock price, although it decreased from 59K in 2019 to 49K in 2020. Conversely, the average highest stock price has consistently risen from 27K in 2011 to 72K in 2020.

It is notable that, on average, the stock price at the end of each year has been higher than at the beginning. Significant variations in stock price performance were observed by the end of each year. Berkshire Hathaway experienced the largest increase of 22,507M and Alphabet had the lowest increase at 7. The average annual change in the stock price displayed an increasing trend, peaking at 0.33 in 2017, but

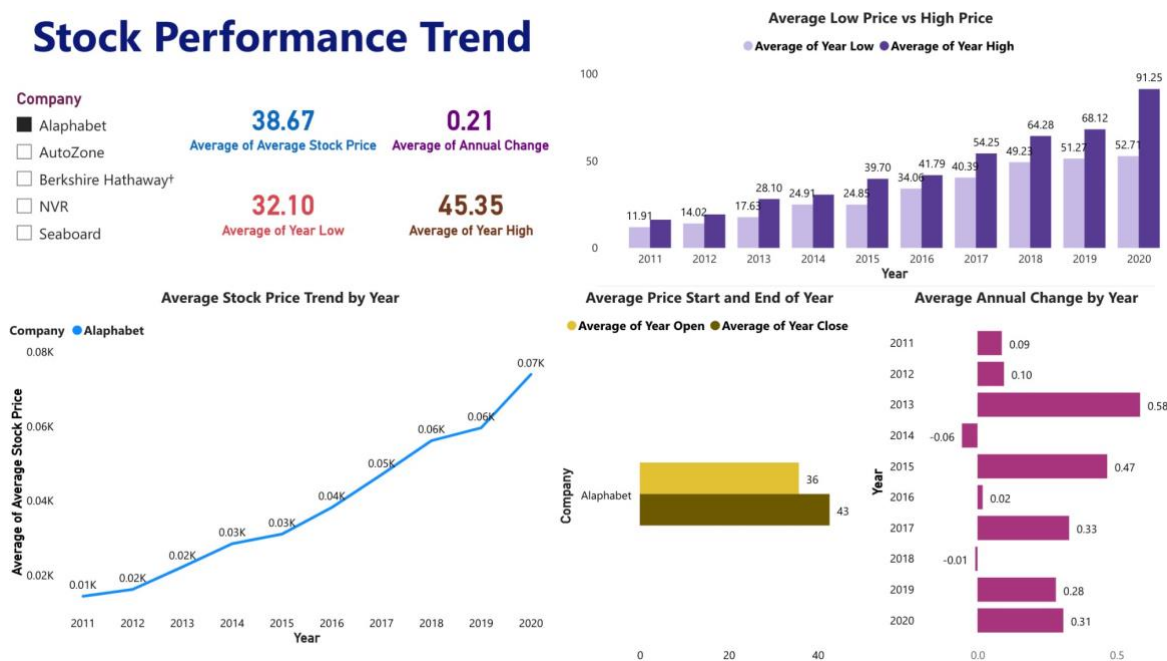
dropping significantly to -0.06 in 2018. However, there was a sudden increase in 2019 (0.32), followed by a decrease in 2020 (0.02).

To delve deeper into individual company performance and identify stable growth patterns, analyzing each company's specific dashboard would be beneficial. This analysis would aid in determining whether the company's stock should be split or not, as well as provide insights into their overall stock performance trends.

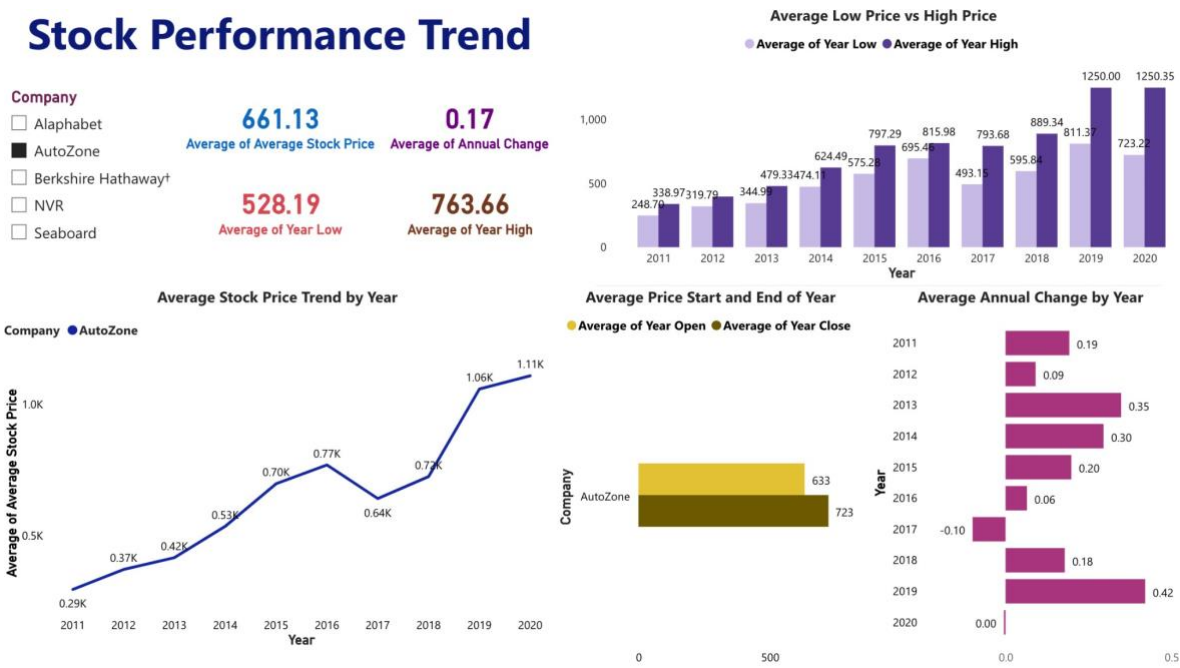
Company Wise Dashboard of Stock Performance Trends in the US

Separate dashboards have been developed for the top five companies in the US, namely Alphabet, AutoZone, Berkshire Hathaway, NVR, and Seaboard. By examining these company-specific dashboards, users can gain insights into the performance and stability of each company's stock, facilitating informed decision-making and potential evaluation of stock split strategies.

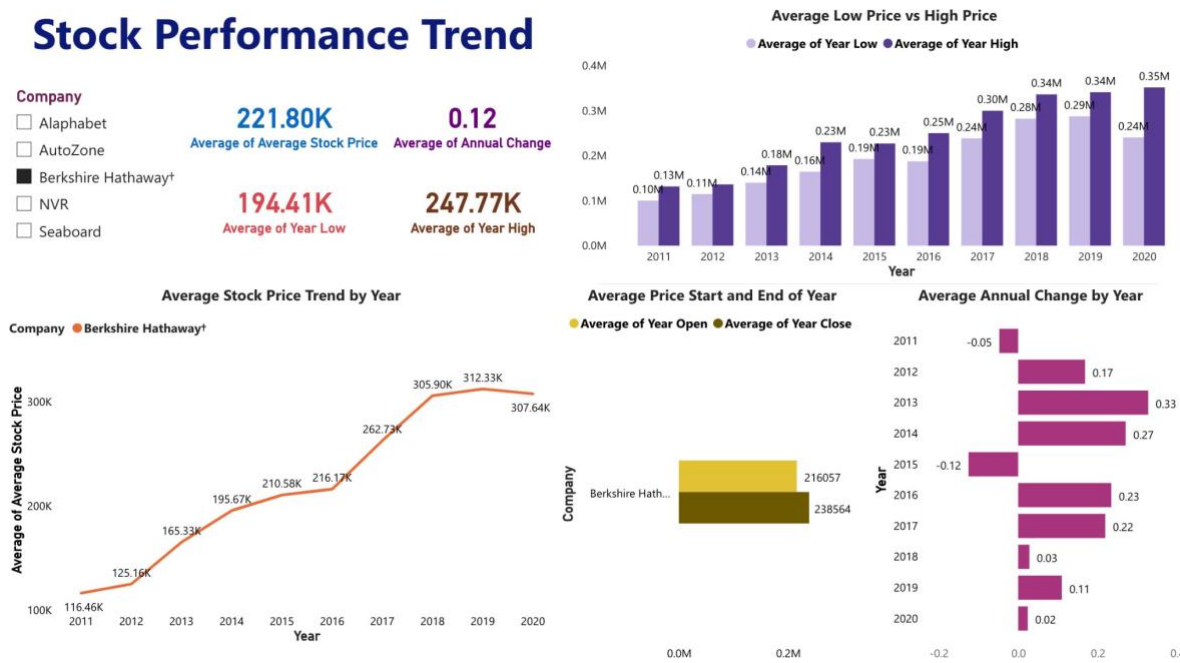
Alphabet Stock Performance Trend



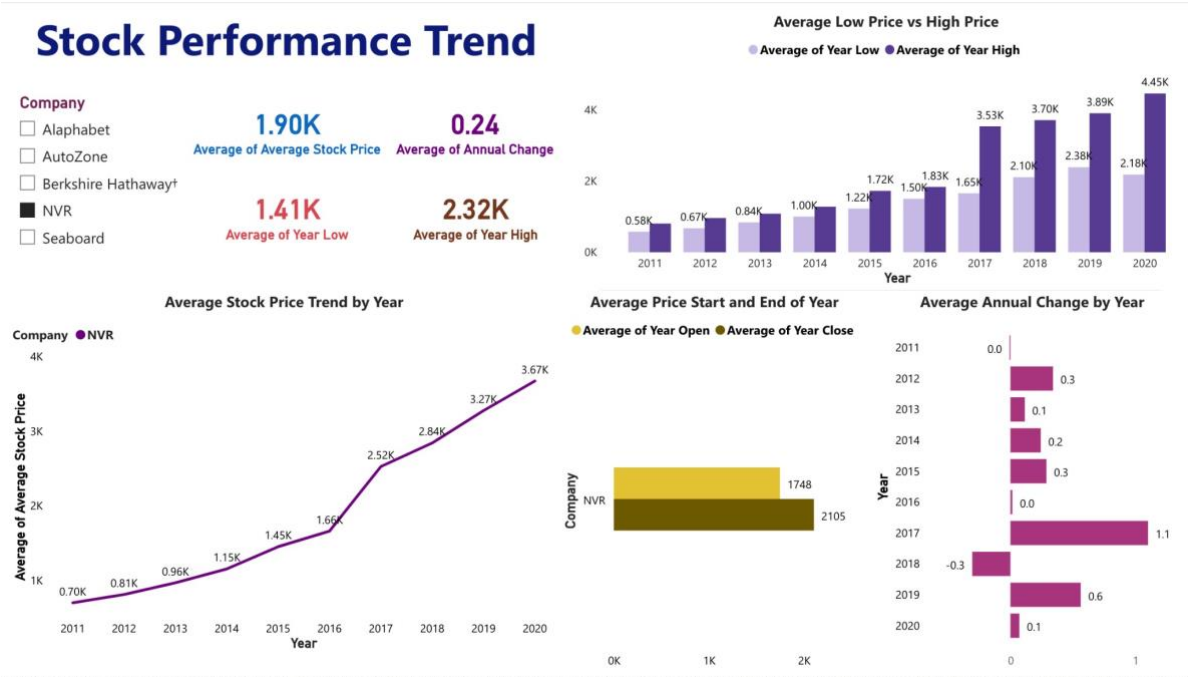
AutoZone Stock Performance Trend



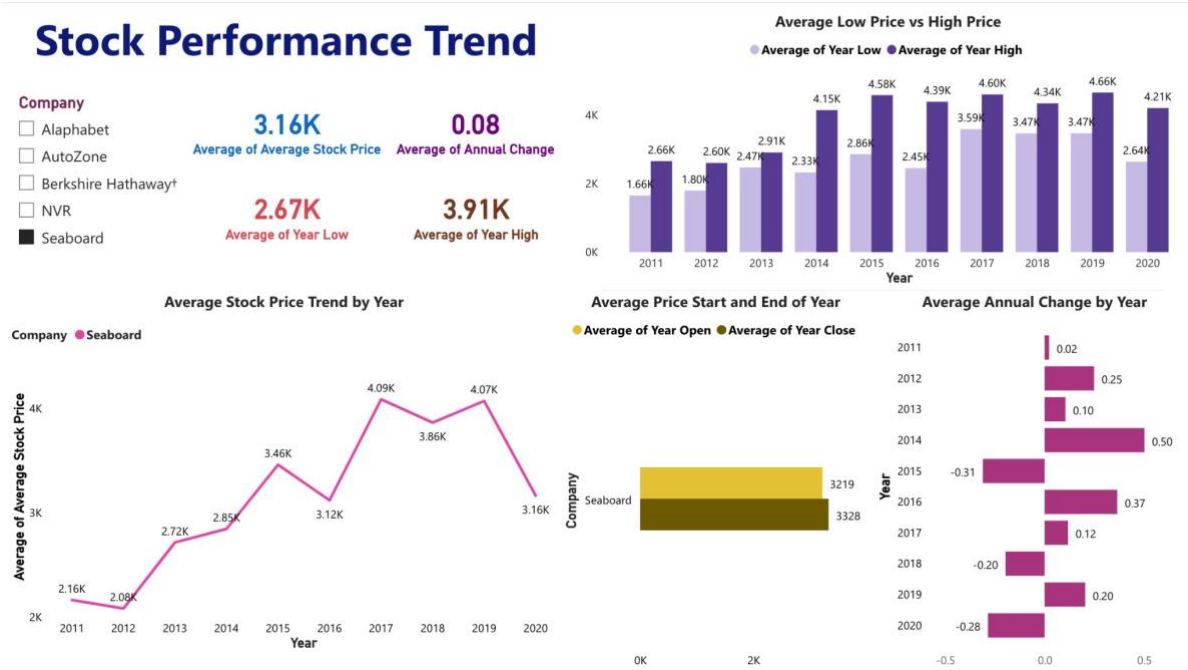
Berkshire Hathaway Stock Performance Trend



NVR Stock Performance Trend



Seaboard Stock Performance Trend



While analyzing the company-wise dashboard, the following are the key insights:

- **Stock Price** - Alphabet, AutoZone, and NVR exhibited a consistent upward trend in their average stock prices from 2011 to 2020. Meanwhile, Berkshire Hathaway experienced a slight decline in stock price, decreasing from 312.33K in 2019 to 307.64K in 2020. Nevertheless, Berkshire Hathaway maintained the highest stock price among the companies from 2011 to 2020, with an average of 221.80K and Alphabet had the lowest average stock price at 38.67. However, it is notable that Seaboard Company's stock price is quite unstable over the years, experiencing sharp declines in 2012, 2016, 2018, and 2020.
- **Lowest and Highest Stock Price** - Berkshire Hathaway exhibits a significant difference between its average highest and lowest stock prices, with a gap of 53.36K. Seaboard follows with a smaller difference of 1.24K. In contrast, Alphabet demonstrates both the lowest and highest stock prices on average, but what sets it apart is the consistent increase in both the lowest and highest stock prices from 2011 to 2020, unlike the other companies.
- **Stock Price at the Start and Beginning of the Year** - Among the companies analyzed, Berkshire Hathaway witnessed the highest increase of 22,507M in stock price, followed by NVR with an increase of 357K. Seaboard Company experienced a rise of 109K, while AutoZone had an increase of 90K. In contrast, Alphabet had the smallest increase in stock price, with a growth of only 7K. A noteworthy observation is that, on average, the stock price at the end of each year has been higher than at the beginning.
- **Annual Change** - Upon observing the annual change trend over the years, it is evident that AutoZone, NVR, and Alphabet have predominantly maintained a positive annual change, indicating overall growth in their stock prices. Conversely, Seaboard has experienced significant negative annual changes in three specific years: 2015, 2018, and 2020, signifying a decline in stock price. In terms of average annual change from 2011 to 2020, NVR exhibits the highest average annual change at 0.24, followed by Alphabet at 0.21, and AutoZone at 0.17. Conversely, Seaboard has the lowest average annual change with a value of 0.08.

## Conclusion

In summary, Alphabet, AutoZone, and NVR demonstrate consistent upward trends in their average stock prices, making them potential investment options. Despite a slight decline in 2020, Berkshire Hathaway maintains the highest stock price overall. Seaboard Company's stock price is volatile, experiencing sharp declines in several years. Berkshire Hathaway also exhibits a significant difference between its lowest and highest stock prices, indicating potential volatility. On the other hand, Alphabet consistently shows increases in both the lowest and highest stock prices. Annual change trends suggest positive growth for AutoZone, NVR, and Alphabet, while Seaboard Company experiences negative changes in select years.

Based on these findings, it is recommended to invest in Berkshire Hathaway, but with a suggestion to split the stock for wider investor accessibility. Alphabet, NVR, and AutoZone are also a safe bets to invest in. Caution should be exercised when considering Seaboard Company due to its unstable stock performance. Individual investors should carefully evaluate their investment goals and risk tolerance before making decisions.

## References

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