

The S&P 500 is a benchmark index largely considered for the U.S. stock market. Many investors also use this benchmark for their individual portfolios. There are Advantages and Disadvantages of using this Benchmark. Advantage of using this benchmark captures wide market of large cap company's index. This provides a wide understanding and view of how the economic is doing. On the data frame description, we see the max is on the current stock price is 3259. Compared to the mean, which is 318. This gives an understanding that a lot of companies that we had selected on the means where not doing good. 1 company alone is having a good current market.

Disadvantage of using this benchmark for individual portfolio performance is most investors diversify their assets the values of which are not reflected in the S&P 500. The standard deviation of stock is used to for investors to find ideal stock. The standard deviation helps to point them in the right direction. It also determines the dispersion of a dataset in relation to its mean. The greater the standard deviation, the riskier the stock. A low standard deviation usually points to consistent reliable stocks.

Company and investors need data's like to make prediction as well as, understanding how the market is doing. We can easily target the companies in the data frame that we need to look at their stock prices and help out to make decisions when to enter the market and exit. We can also plot graphs to see the project from the data.