

Technical Report Writing

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Topic: Stock Market Price Prediction using Machine Learning

Introduction:

One of the most significant issues in finance and business is stock price prediction. The stock market, on the other hand, is a dynamic and unpredictable realm. Several studies have been conducted to forecast the market in order to benefit utilising various approaches such as statistical analysis, technical analysis, and fundamental analysis, among others, with varying outcomes.

Forecasting may be described as the analysis of historical data to anticipate some future occurrence or events. It covers a wide range of topics, including business and industry, economics, environmental science, and finance, to name a few. There are several types of forecasting issues.

The analysis of time is involved in many forecasting issues. A time series data set is a chronological series of observations for a single variable. The variable in our instance is the stock price. It might be univariate or multivariate in nature. Multivariate data comprises stock values from several companies at different points in time, whereas univariate data only provides information about one stock. Time series data analysis aids in the discovery of patterns, trends, and periods or cycles in the data. When it comes to the stock market, knowing the bullish or bearish mood early on will help you invest money properly. Pattern analysis also assists in finding the best-performing firms over a certain time span. As a result, time series analysis and forecasting are major study areas.