

Project 1: Stock Price Prediction Using Regression Analysis

Project By: Sharwari Muley

Task: Utilize machine learning techniques to predict stock prices & implement regression models to forecast future stock values.

Following are the steps I undertook while building the project:

1. Loading Python libraries and importing stock price datasets.
2. Analysed the data and calculated the number of null values.
3. Separated the features that actually affected stock price prediction.
4. Then, plotted various sns plots to visualise the values and the correlation between features.
5. Analysed whether any outliers were there and found almost the same amount of outliers in all features.
6. Then I separated the target variable as “y” and other features as “X” followed by further splitting in the train and test dataset using sklearn library.
7. Implemented Linear Regression model using sklearn library and predicted values of the target variable.
8. Predicted values were almost the same as the actual stock price values which is depicted by a bar chart at the end.
9. Imported confusion matrix to analyse the performance of the model.
10. Obtained accuracy of the model = 98.51%.