

CSE523: Machine Learning
Faculty Mentors: Prof. Mehul Raval,
Weekly Project Report

Stock Price Predictor

Team MUSK

Student's Details

| Student's Name | Enrollment Number |
|-----------------------|--------------------------|
| Sanskruti Shingala | AU1940124 |
| Mansi Savaj | AU1940158 |
| Krinal Boghani | AU1940195 |
| Udit Kapadia | AU1940214 |

- **Tasks Performed In The Week:**

1. Applied linear regression model on two company axis banks and cafe coffee day which have different data set than previous company Vodafone-Idea Limited.
2. We have chosen these companies as they have various fluctuations in their data and which can help our model to train better for every situation.
3. Performed RMSE test and analyzed predicted data.

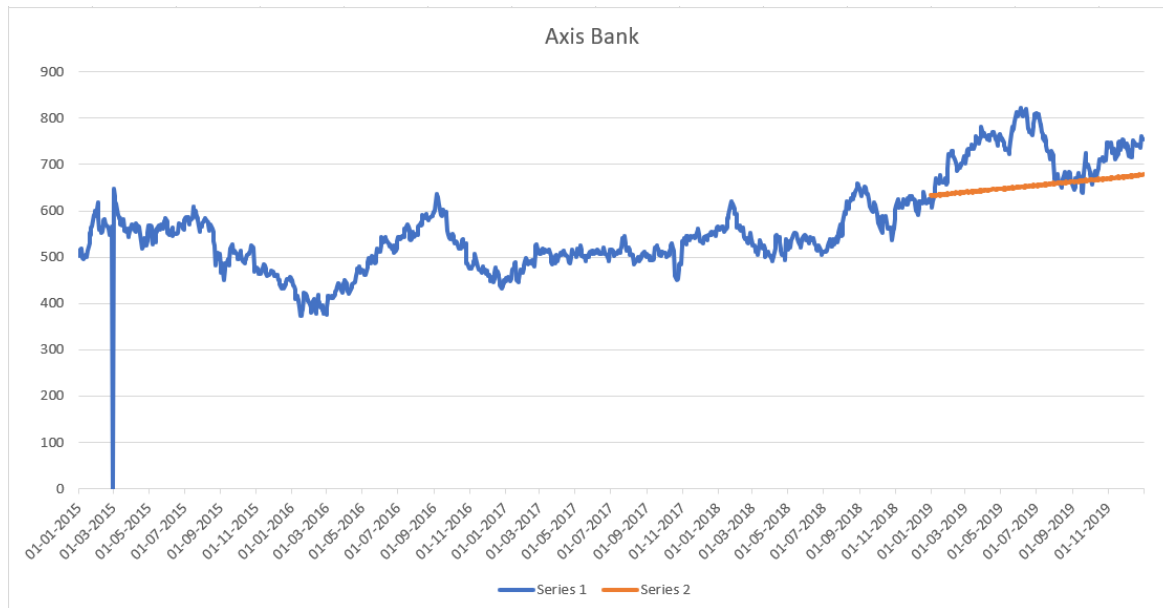
- **Outcomes:**

Graph of linear regression model of company Cafe coffee day:



The RMSE value = 67.96126

Graph of linear regression model of company Axis Bank:



The RMSE value of company Axis Bank = 84.5568

RMSE values of these companies are quite high which means the Linear Regression model has performed very poorly. This model overfits the date and month column. Rather than considering the previous values from the point of prediction, the model considered the value from the same date in the previous month or a year ago. Hence, Linear Regression model is not a good model for our data set.

- **Tasks to be performed in next week:**

To test another ML algorithm(multiple regression) for Axis Bank and Cafe Coffee day dataset.