

Capstone Project Submission

Instructions:

- i) Please fill in all the required information.
- ii) Avoid grammatical errors.

Team Member's Name, Email and Contribution:

Name : Karan Tiwari

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Contribution:

Colab notebook

Project summary

Technical documentation

Project presentation

Presentation video

Please paste the GitHub Repo link.

Github Link:- <https://github.com/Karantiwari307/Yes-bank-stock-closing-price-prediction.git>

Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)

Yes Bank is a well-known Indian financial organization. It has been in the news since 2018 as a result of the Rana Kapoor fraud case. As a result, it was exciting to see how it influenced the company's stock prices.

First I performed Exploratory Data Analysis (EDA) on the raw dataset, for that first I imported the important libraries that generally used for Data Analysis. I got insight into the data and found that there are 185 rows and 5 columns , there were no null value and duplicate rows so no data cleaning is required.

Then, I proceeded to plot the data into multiple graphs using matplotlib and seaborn libraries, while taking various parameters into consideration using matplotlib and seaborn, I gained much better understanding of the dataset , I found that the data is not normally distributed so we have to make our data standard normal distributed.

Then I plotted a correlation map using heat map graph on the Dataset and we found that there are correlated data inputs in our Dataset so there is a multicollinearity problem, So to deal with correlation we used L1 & L2 Regression then we perform data modeling and Train test split for implementing machine learning models. Then I used standard scalar on X_test and x_train to make our data standard normally distributed.

I implemented Linear Regression, Lasso Regression, Ridge regression and Elastic Net Regression. The Machine learning models we implemented gives 98 % of accuracy.