**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| Prediction of Closing Price of stocks is of great interest for day traders, swing traders and active investors around the globe. Correctly predicting the closing price of stock can make a good sum of wealth from the market. For the same here I am using data from different sectors to predict the closing price of stock on any particular day. Data consist of five features:  “Open”: Opening price of the Stock  ”High”: Highest price reached by the Stock in a day  “Low”: Lowest price of stock  ”Close”: Price of Stock when Stock Exchange got closed  “Date”:stock dates  All of the above features excluding Date are non categorical features.  Only date data type is in categorical features.  Importance of Stock Market:-   * Stock markets help companies to raise capital. * It helps generate personal wealth. * Stock markets serve as an indicator of the state of the economy. * It is a widely used source for people to invest money in companies with high growth potential.   The main objective of this project is to stock the closing price of the month. The Dataset has the attributes like closing, starting, highest and lowest stock prices of every month.  The stock market plays a remarkable role in our daily lives. It is a significant factor in a country's GDP growth.  The Open column tells the price at which a stock started trading when the market opened on a particular day. The Close column refers to the price of an individual stock when the stock exchange closed the market for the day. The High column depicts the highest price at which a stock traded during a period. The Low column tells the lowest price of the period. New\_Feature is taking the average of all Open, Close, High and Low by taking the mean of it.  **Contributions Roles:-Individual**  **Business Problem:-**  **Yes Bank is well known bank in Indian financial domain. It has been in the news because of fraud case involving rana kapoor. It was very interesting to see that how its impacted on stock prices of the company. The main objective of this project is to stock closing price of the month. The Dataset having the attributes like closing, starting, highest and lowest stock prices of every month**  **Approach:**  **1.Load the dataset**  **2.Summarize the data**  **3.Exploratory Data analysis**   * **Finding missing values** * **Filling missing values** * **Finding duplicate values** * **Bivariate analysis** * **Converting object data type into int data type**   **4.Analyzing data with target variable**  **5.Feature engineering: Aggregation Type**  **6.Chek correlation**  **7.Train-Test-Split**  **8.Model Build(Linear Regression)**  **9.Use performance evaluation matrix**  **10.use another repressor method(Ridge, Lasso)regularization method**  **Conclusion:-**   * **From the Graph of Stock opening price and stock closing price have the same results.** * **From the new\_feature attribute and close attributes seem like there is high correlation of each variable.** * **Bivariate analysis shows high correlation of close price with each other** * **Graphs of “closing price vs date” and “open price vs dates” shows that from the date range of 2018-19 there was a falling down of stock and it becomes 0 in 2020.** * **We are implemented a linear regression model which gives the accuracy of 98% and visualize the linear regression model gives best fit model** |
| **Team Member’s Name, Email and Contribution:**  **Name:-Janhavi Dilip Shembade**  **Email:-** [**janhavishembade01@gmail.com**](mailto:janhavishembade01@gmail.com)  **Contribution:-Individual work** |
| **Please paste the GitHub Repo link.-**  Github Link:-  [**https://github.com/janhavishembade/Yes\_Bank\_Stock\_Close\_Price\_prediction**](https://github.com/janhavishembade/Yes_Bank_Stock_Close_Price_prediction) |
| **Please paste the Drive link.-** [**https://drive.google.com/drive/folders/1r-48Opu-gMNw0jT3SGc6SVk\_MVfSTH4U?usp=share\_link**](https://drive.google.com/drive/folders/1r-48Opu-gMNw0jT3SGc6SVk_MVfSTH4U?usp=share_link) |
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