**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| **Team Member’s Name, Email and Contribution:** |
| **Name**: Kabeer Pande  **Email**: [kabeerpande7075@gmail.com](mailto:kabeerpande7075@gmail.com)  **Contribution:**  Colab notebook  Project summary  Technical documentation  Project presentation  Presentation video |
| **Please paste the GitHub Repo link.** |
| Github Link:- <https://github.com/Link/to/Repo> |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| **India's Yes Bank is a well-known banking institution. Due to the Rana Kapoor fraud case, it has been in the headlines since 2018. It was interesting to see how it affected the company's stock prices as a result.**  **On the raw dataset, I first did exploratory data analysis (EDA), for which I first imported the key libraries that are commonly used for data analysis. I gained insight into the data and saw that there are 185 rows and 5 columns, no duplicate rows or null values, so no data cleaning is required.**  **After using the matplotlib and seaborn libraries to plot the data into multiple graphs while taking various parameters into account, I was able to understand the dataset much better. I discovered that the data is not normally distributed, so we must make our data standard normal distributed.**  **Then I used a heat map to plot a correlation map on the dataset, and we discovered that there was a multicollinearity issue because our dataset contained correlated data inputs. To address this, we used L1 and L2 regression, followed by data modelling and a train-test split to implement machine learning models. Then, to make our data standard normally distributed, I used standard scalar on X\_test and x\_train.**  **I used Elastic Net Regression, Ridge Regression, Lasso Regression, and Linear Regression. Our machine learning models have a 98% accuracy rate.** |