**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:** |
| Shajad [shehzadglocal786@gmail.com](mailto:shehzadglocal786@gmail.com) |
| **Please paste the GitHub Repo link.** |
| Github Link:- <https://github.com/Shajad121/mobile-price-range-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)** |
| **This project is about the price range prediction of mobile price range analysis. When we start this project it is very difficult to understand and look very complex.**  **In first step we upload the data and then we start to find the duplicate values and nulls values and missing values etc. but in this data there is no missing values and duplicate values. After completion of 1st step in 2nd step we pot the data in form of graph pie plot and bar plot and line plot and also box plot and in box plot we find some outlier but these outliers are not affect the result because thy are very less in number. After plot the data we plot the heatmap of the data and then we find the relationship between the feature and we did some feature engineering in the data like combine the features and make another feature etc.**  **After the feature engineering we apply some algorithm, 1)KNN , 2)SVM ,3)decision tree, 4)random forest, 5) bagging, 6)sacking,7)XG booster, 8) Gradient boosting.**  **After applying these algorithm we select the best 3 algorithm that gives the best accuracy score. And we select the XG boost, random forest, gradient boosting the give the accuracy between the 88- 91 percent. After selecting the algorithm we do some feature engineering and do some cross validation but there is not much change in the result of the cross validation and we select all as a best that give us 91% accuracy score.** |