**Capstone Project Submission**

**CREDIT CARD DEFAULT**

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| **IRSHAD, GMAIL: irrshadkhan@gmail.com** | |
| **ROLES:**    1. Data Wrangling  2.Count number of rows and columns in the dataset  3.Find the missing values in the dataset  4.Check the limit balance remaining in the card  5. It found that limit balance feature is right skewed  6.Count the number of male or female have card  7.Count the distribution of card of on the basis of education  8.Count number of marriage people have the card  9.Count number of card holder by age  10.Age feature is also right skewed middle 50% of the age is 26 to 40 years which means mostly working class people use credit card few people above 60 years of the age also the credit card  11.Now check the payment status of the card by month  12.Make a heat map to understand the relation between the features of the data  13.In this heat map payment amount and bill amount correlated itself  14.Splitting the dataset in dependent and independent variable  15.Splitting the dataset in the train and test set  16.Now before applying the train and test on the data first check the data is balance or not  17.Here we can see that the data is imbalanced  18.Now balancing the data set by oversampling  19.After the data is balance now the time is applying the model on the dataset  20.First model is logistic regression  21.Second model is k nearest neighbour  22.Third is naïve bayes.  23Fourth model is decision tree  24.Fifth model is random forest classifier  25.In the random forest model the result is very better as compare to other model  26. Doing hyper parameter tuning on the random forest algorithm  27.Finally make a conclusion on the behalf of random forest result | |
| **Please paste the GitHub Repo link.** | |
| Git hub Link:- <https://github.com/irshad9873/credit-card-default/blob/main/Credit_Card_Default_Prediction_Capstone_Project.ipynb>  My Drive link :-<https://drive.google.com/drive/folders/1p8m2xK5N3KNQ8C7wUtEQzHWKUvOWXRWV?usp=sharing> | |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** | |
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