Steps followed while doing project

Step 1: Read Data.csv

Step 2: Perform EDA and Cluster imputation method to remove all null values and save dataset into **data_no_null.csv**

Step 3: Create new file with the name of **model_analysis_part1.ipynb**

- Perform preprocessing and data cleaning: dropping some unnecessary columns
- Perform train-test split

Step 4: Model building using:

- Liner Regression
- Random forest
- XGBoost
- ANN Model

Step 5: XGBoost is giving best RMSE so we save Pickle file for the XGBoost in our current working directory with the name of **finalized_model.pkl**

Step 6: We created **deployment_file** folder containing some folders like Templates, static.

Step 7: Open **deployment_file** in **PyCharm** for deployment.

Files within deployment_file:

- app.py: this file is used to integrated all the Pickle file of XGBoost and user interface HTML page to take the input from the user and predict the result based on the taken inputs.
- index1.html: Used to design user interface page and providing interface to take the input from user
- results.html: this page is an interface page which will show Predicted Credit Revolving Balance
- CSS fie: For designing and giving the style

Step 8: Run **app.py** inside deployment_file

Step 9: Click on URl: http://127.0.0.1:5000 to get web page.

Step 10: Fill Credit Card Revolving Balance form.

Step 11: After filling all the information click on predict button to get predicted values on the result.html page.