# Major Project

You are provided with a loan sanction dataset where you will have to identify whether the loan of a particular person is approved or not depending on the information the individual has provided.

The dataset consists of the following attributes:

| Atrribute | Significance |
|---|---|
| Loan_id | Unique loan Id |
| Gender | Male/female |
| Married | Applicant married (Y/N) |
| Dependents | Number of dependents |
| Education | Applicant education (Graduate/ Under graduate) |
| Self-employed | Self employed (Y/N) |
| ApplicantIncome | Applicant income |
| CoapplicantIncome | Coapplicant income |
| LoanAmount | Loan amount in thousands |
| Loan_Amount_Term | Term of loan in months |
| Credit_history | Credit history meet guidelines |
| Property_area | Urban / Semi urban / Rural |
| Loan_status | Loan approved (Y/N) |

Steps for you to follow:

1. Import all the necessary libraries
2. Import the dataset provided
3. Understand the data
4. Deal with the missing values if any

5. Do some visualization if necessary

6. Divide the dataset into training and test datasets

7. Build the machine learning model which ever is suitable for the dataset

8. Fit the model on the training dataset

9. Test the model and find the accuracy of the model on the test and the  training datasets

10. Create a confusion matrix

At last, draw conclusions based on the dataset provided and document the same  on the jupyter notebook

  Most importantly, please comment the usefulness of each

**Task- 2**

On the same dataset draw conclusions from the dataset and create a tableau  dashboard for the same.

HousingData set :  ⊞ HousingData

Titanic_data set :  ⊞ titanic_data

'loan-predictionUC :  ⊠ loan-predictionUC.csv.xlsx