

## **About Company**

Dream Housing Finance company deals in all home loans. They have presence across all urban, semi urban and rural areas. Customers first apply for home loan after that company validates the customer eligibility for loan.

## Problem

Company wants to automate the loan eligibility process (real time) based on customer detail provided while filling out an online application form. These details are Gender, Marital Status, Education, Number of Dependents, Income, Loan Amount, Credit History and others. To automate this process, they have given a problem to identify the customers segments, those are eligible for loan amount so that they can specifically target these customers. Here they have provided a partial data set.

## Data

Variable Description

Loan\_ID Unique Loan ID

Gender Male/ Female

Married Applicant married (Y/N)

Dependents Number of dependents

Education Applicant Education (Graduate/ Undergraduate)

Self\_Employed (Y/N)

ApplicantIncome Applicant income

CoapplicantIncome Co Applicant income

Loan Amount Loan amount in thousands

Loan\_Amount\_Term Term of loan in months

Credit\_History credit history meets guidelines

Property\_Area Urban/ Semi Urban/ Rural

Loan\_Status Loan approved (Y/N)

## Note:

- 1. Perform EDA on the data.
- 2. Split the data into train and test.
- 3. Apply all the classification algorithms on train data pick the right model and then Test on Test data.
- 4. Apply all the Machine Learning algorithms and check which is the best model above all the classification models.