# User Guide - A Loan Prediction Challenge
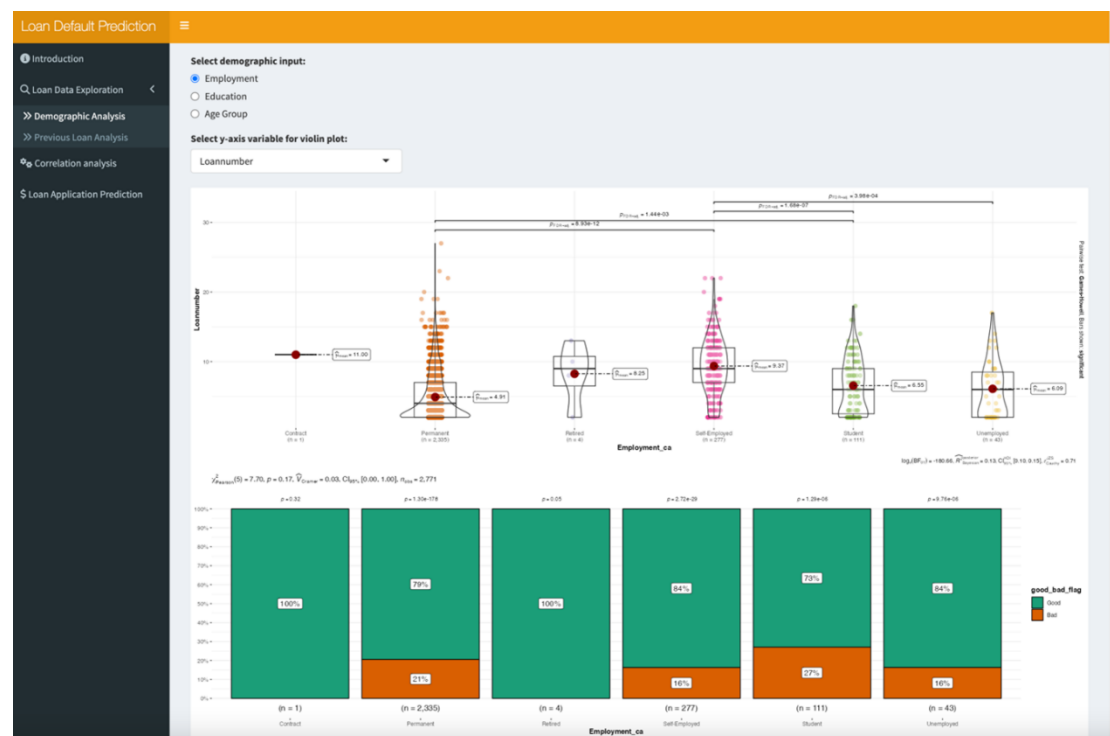
## 1. IntroductionPage

On this page, there is a short description of the application and an overview of the application navigation.

## 2. ExploratoryDataAnalysis(EDA)

Across each tab, there is a sub tab that gives instructions on how to the user can interact with the visualization.

### 2.1. Loan Data Exploration

### 2.1.1Demographic Analysis



[1] Select the demographic factor input that you wish to visualise.
[2] Select the y-axis that you wish to visualise into the violin graph.
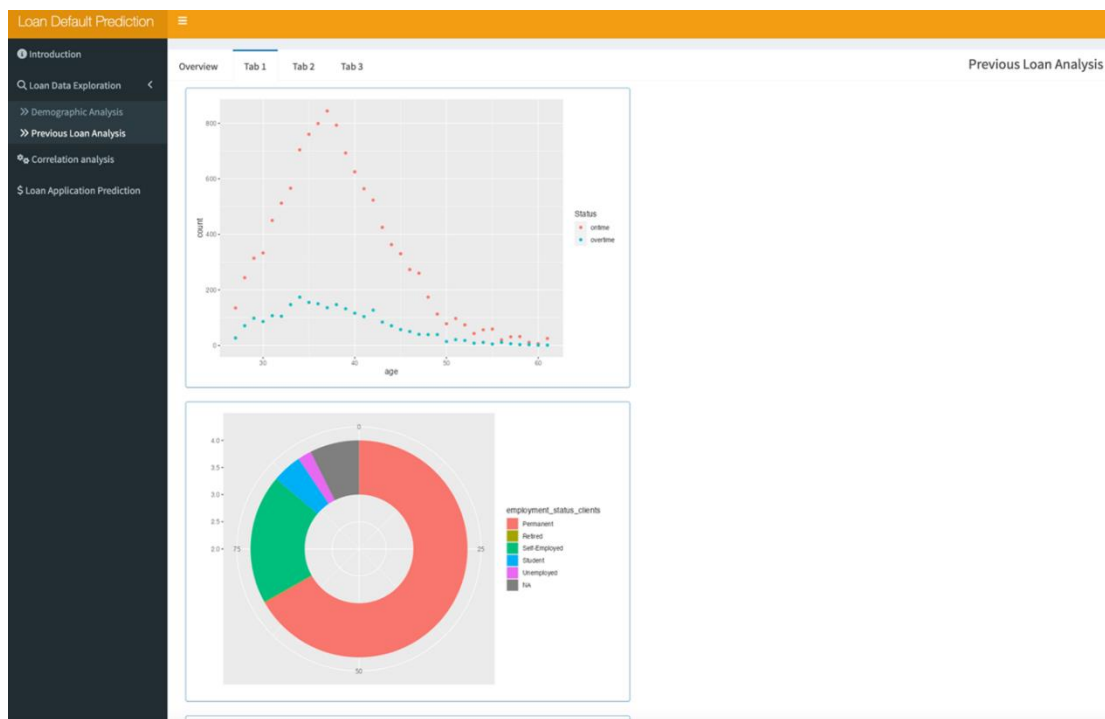[3] Select the y-exis variable button to ensure that y-axis selections are applied.
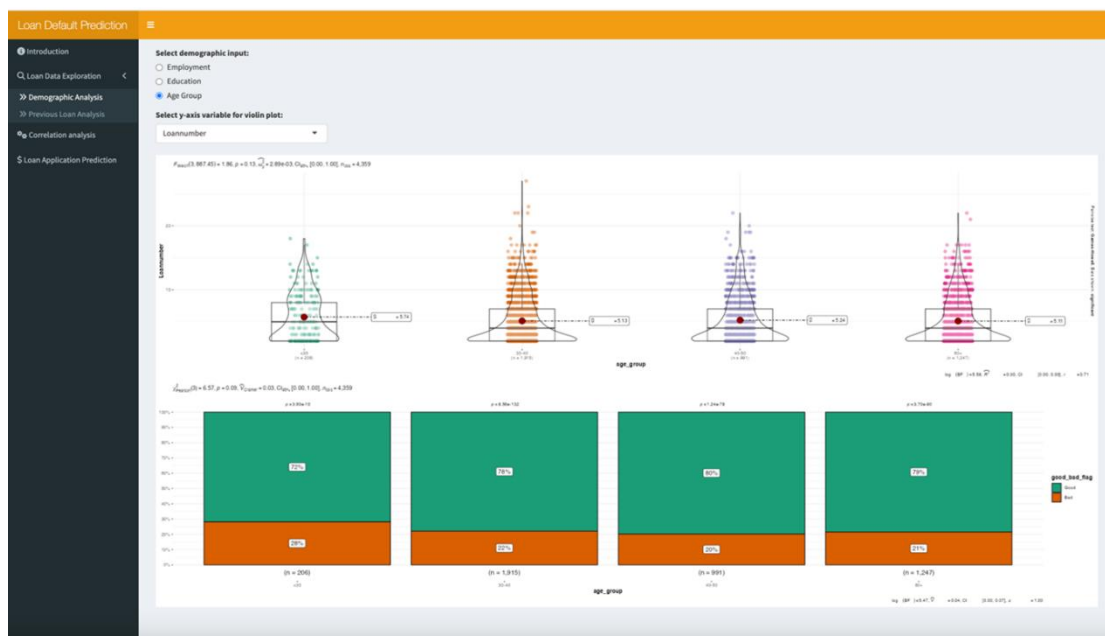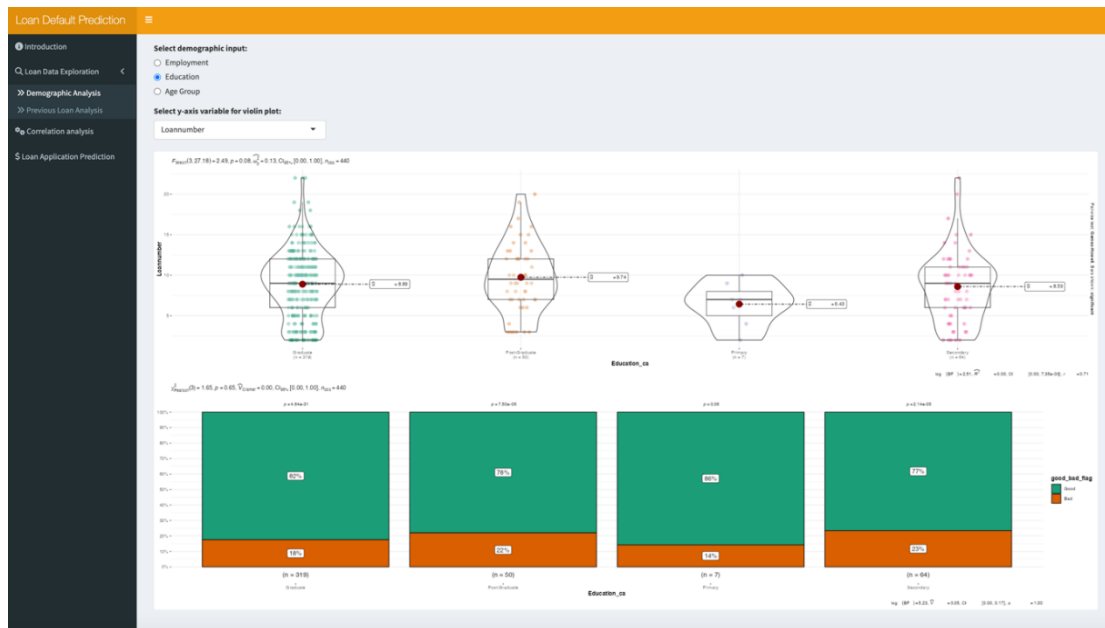
Above is acombination with different input factors, users can have an overview of demographic distribution.

## 2.1.2 Previous Loan Analysis
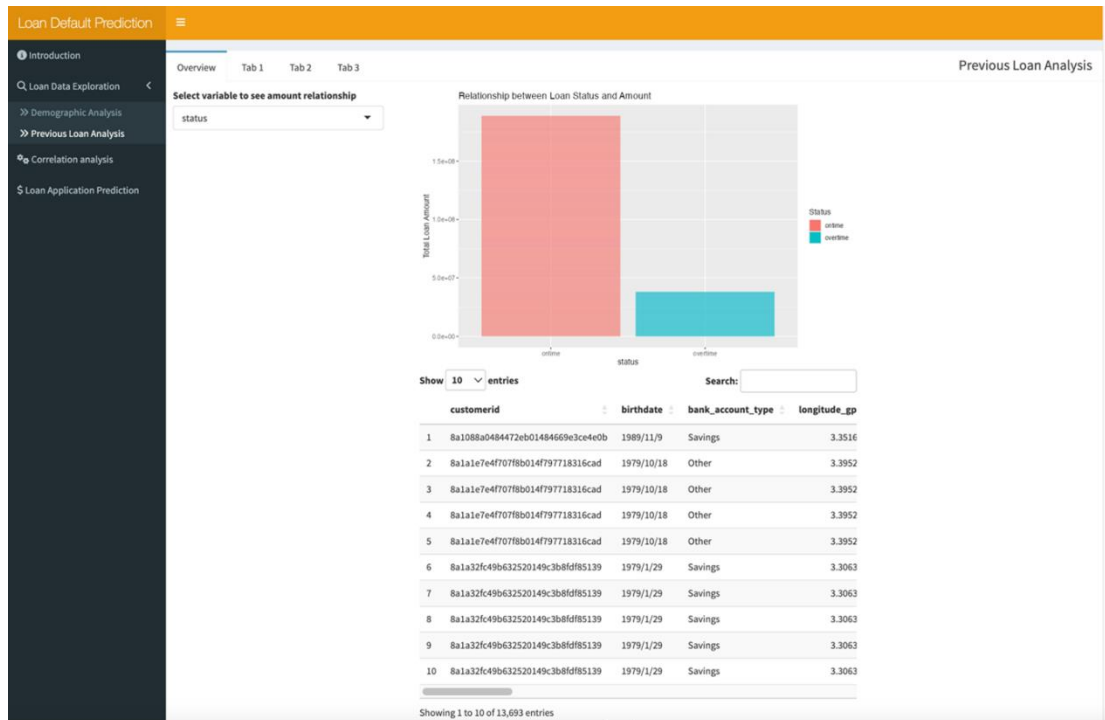
The previous loan analysis has 4 tabs: Overview, tab1, tab2, tab3.
Each has its own function.



[1]In tab1,you can explore the distribution of the amount of the
repay status within different age group which is showed in the way of
scatter plot.

[2]The graph below showed the ratio of different employment of customers.



[1]In tab2,you can explore the distribution of the amount of the customers with different employment   status which is showed in the way of bar chart.
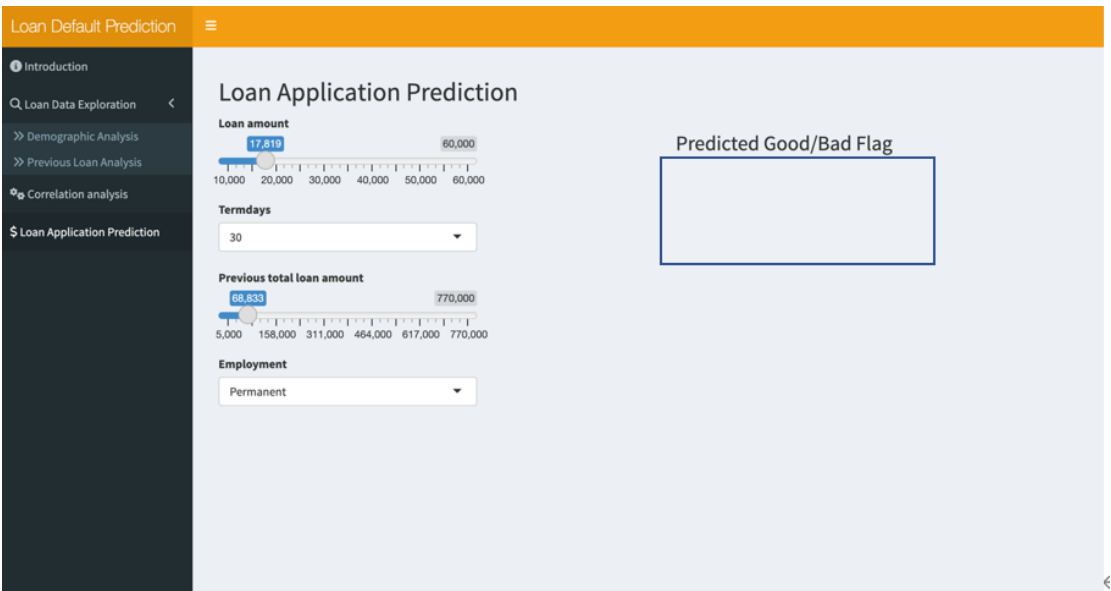


[1]In tab3,you can explore the distribution of the amount of the repay status within different age group which is showed in the way of scatter plot.

[2]The graph below showed the ratio of different employment of customers.

## 3. Correlation Analysis:
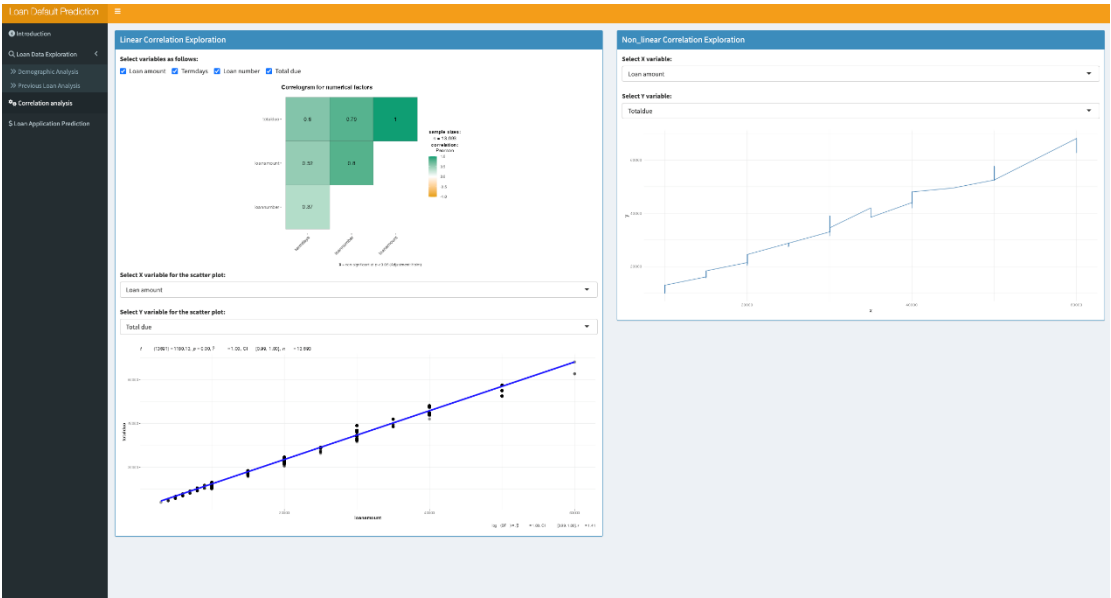


## 4. Loan Application Prediction :



[1]In Loan Application Prediction tab ,users could input the following information :loan amount, termdays, previous total loan amount, employment to predict the loan repay status from the sliderpanel or selectpanel;

The prediction result will be labled in right side.

[2]The prediction results are based on logistic regression machine learning model..