



# Lending Club Case Study

## Group Members :

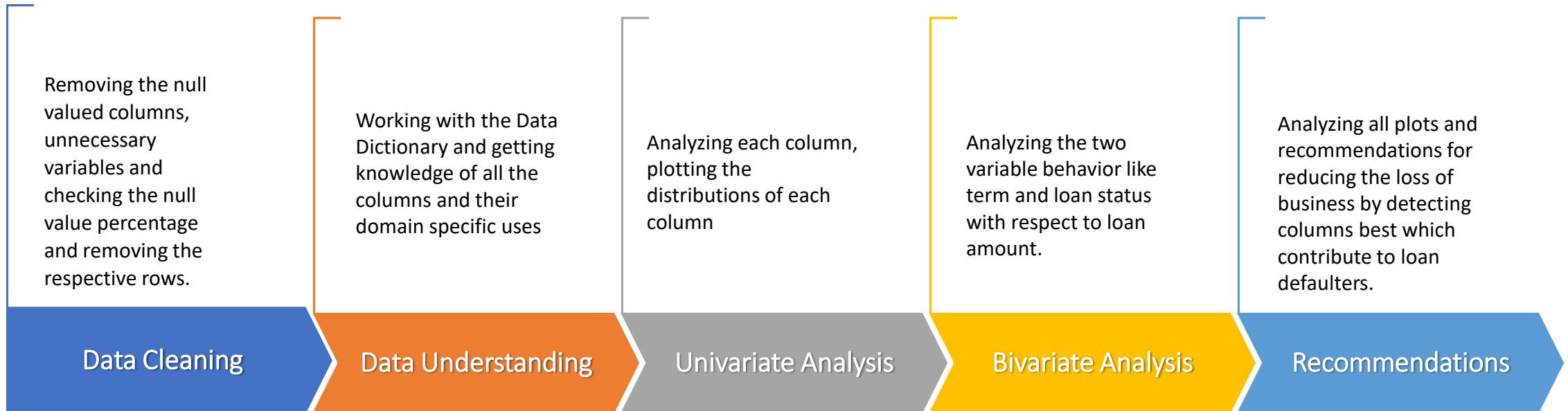
**Shivam Gupta**

**Omkar Kurve**

# Problem *Statement* & Goal

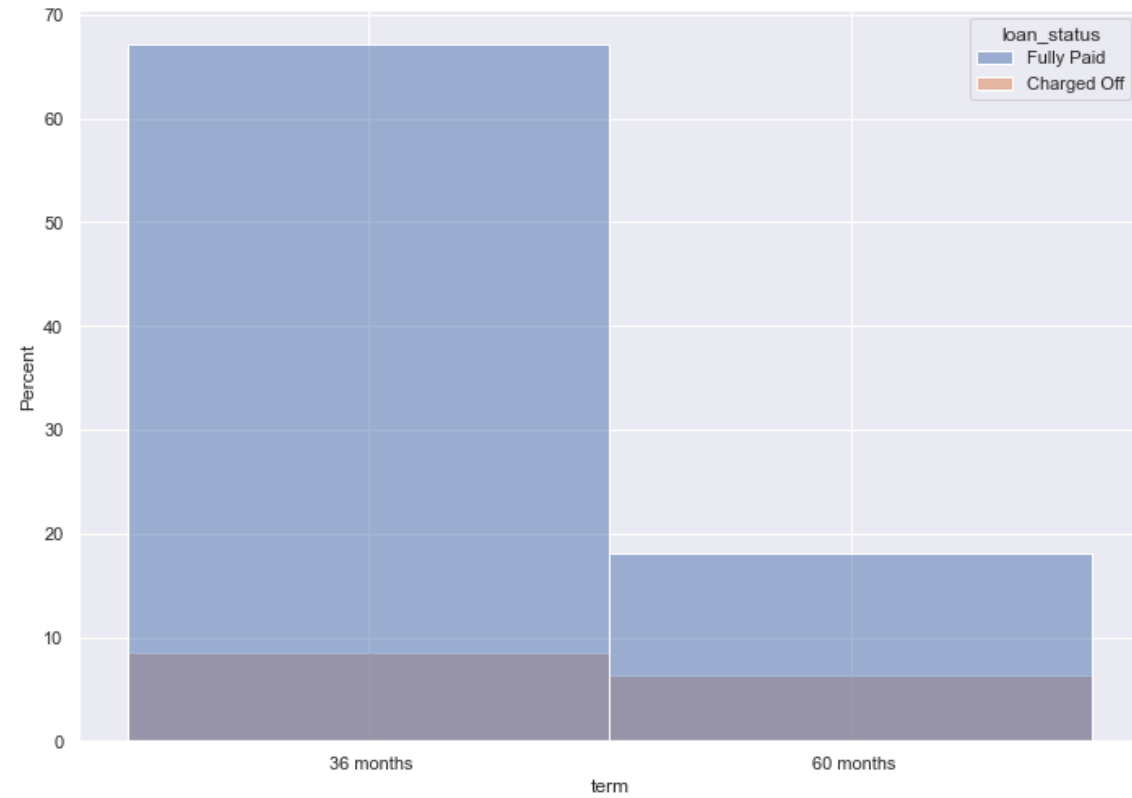
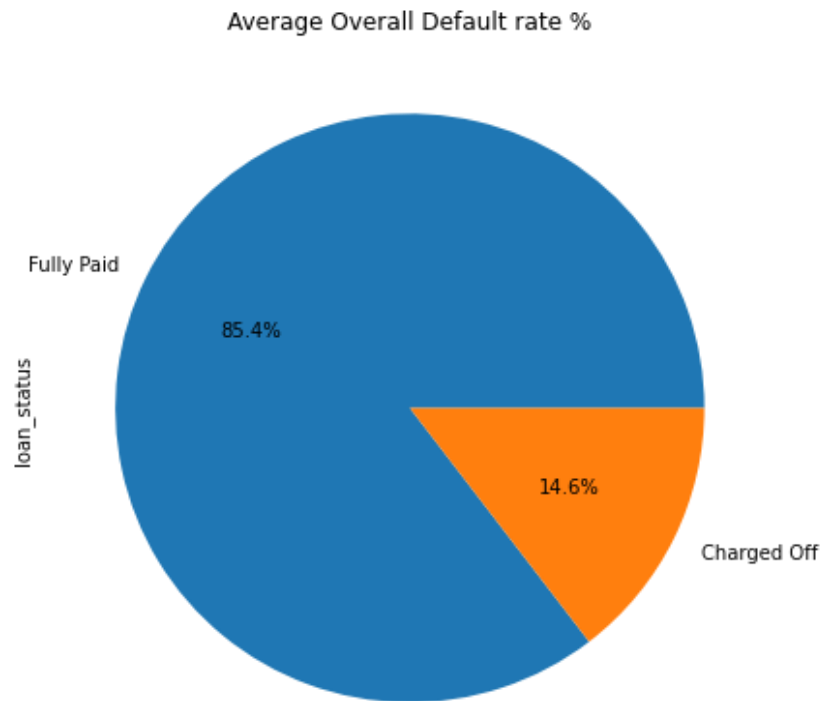
- Lending club is the largest online loan marketplace, facilitating personal loans, business loans, and financing of medical procedures.
- Borrowers can easily access lower interest rate loans through a fast online interface.
- The objective of analysis is to use the information about past loan applicants and find whether they 'defaulted' or not and for same what are the driving factors.

# APPROACH



# Exploratory Data Analysis

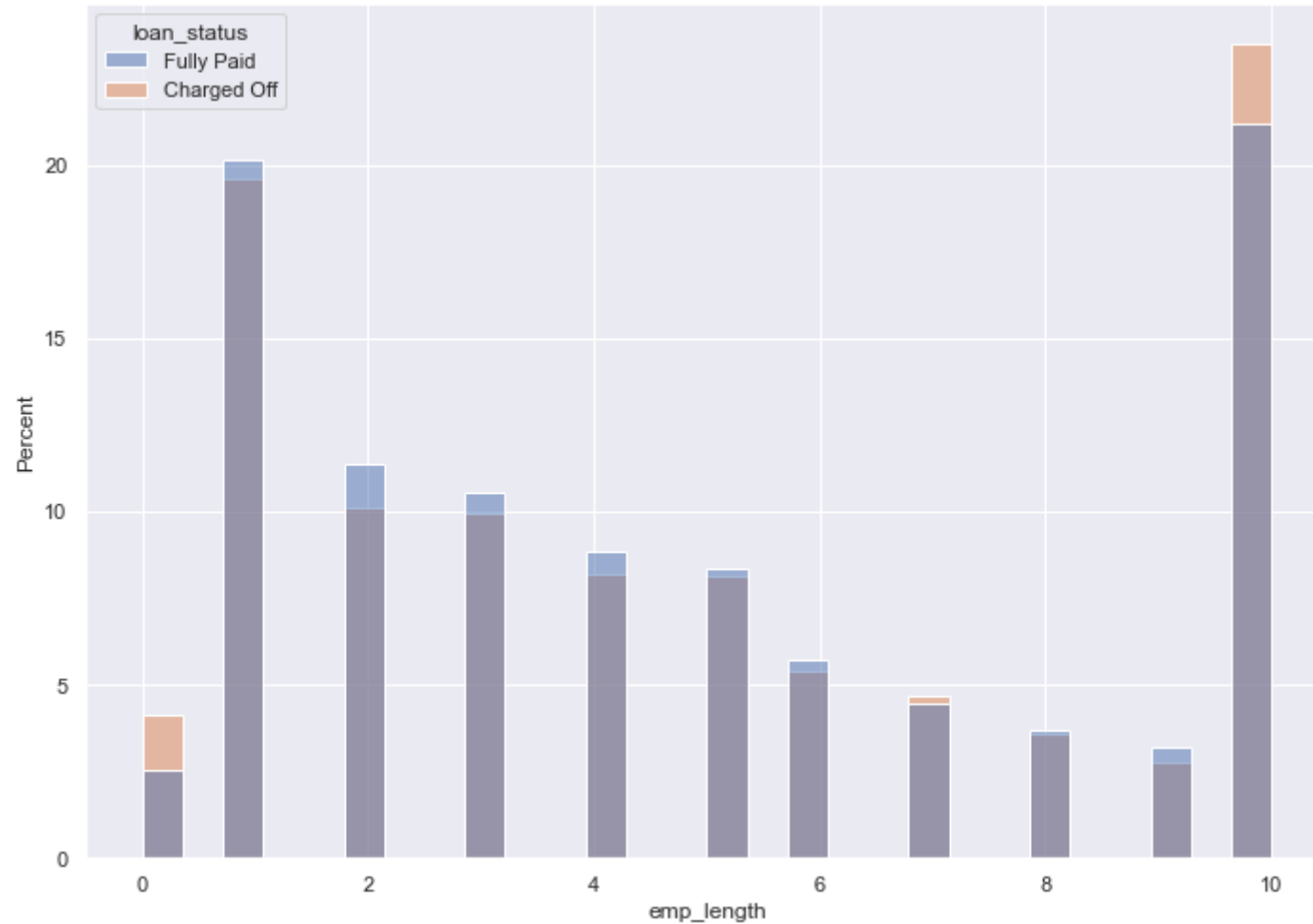
## Insights after analyzing the data





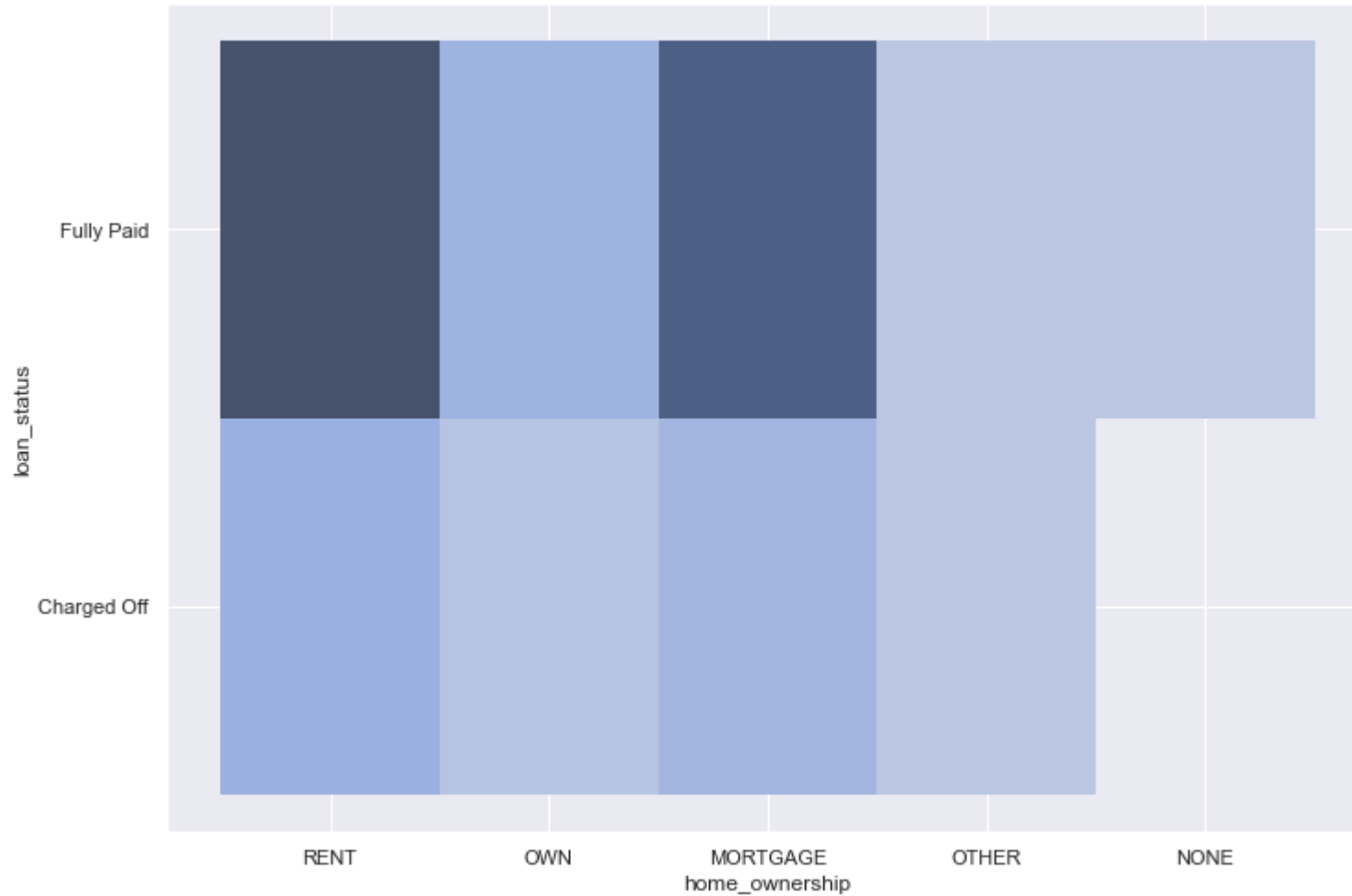
# Exploratory Data Analysis

Insights after analyzing the data



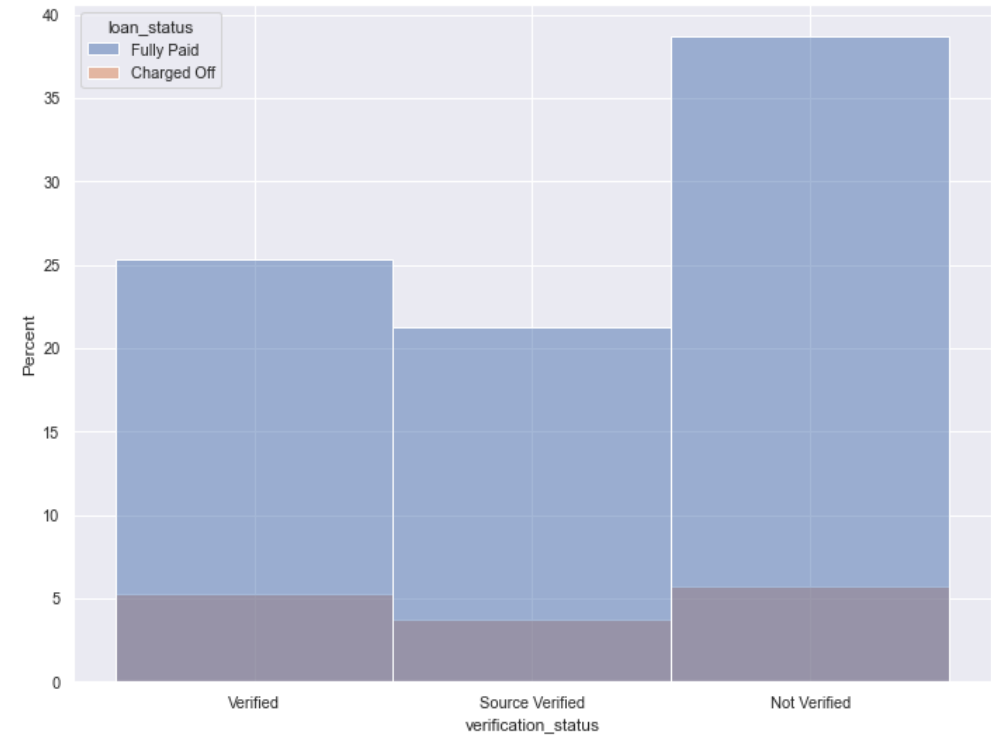
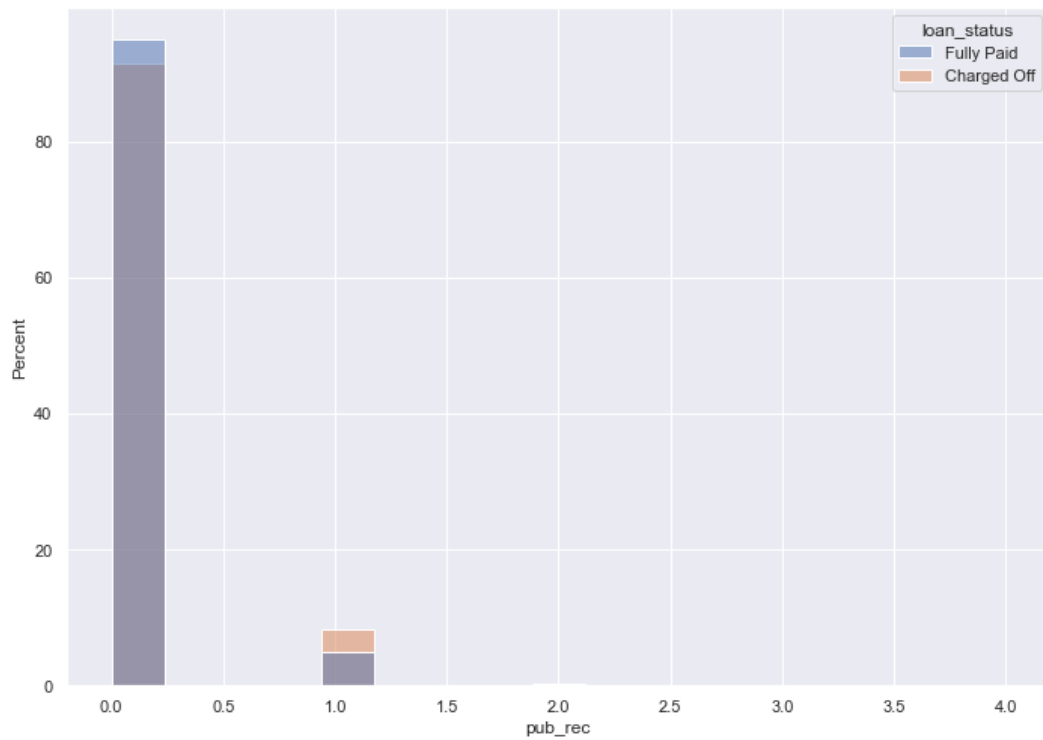
# • Exploratory Data Analysis •

Insights after analyzing the data



# Exploratory Data Analysis

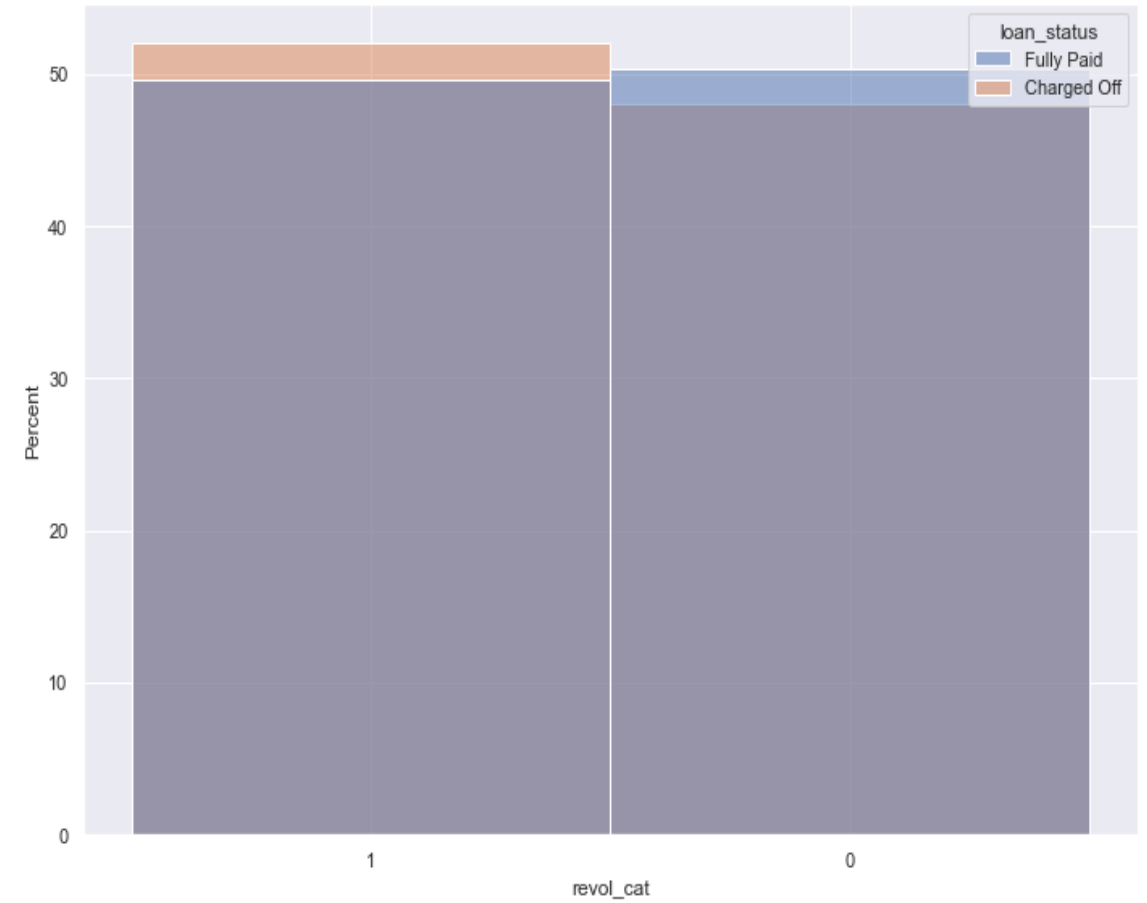
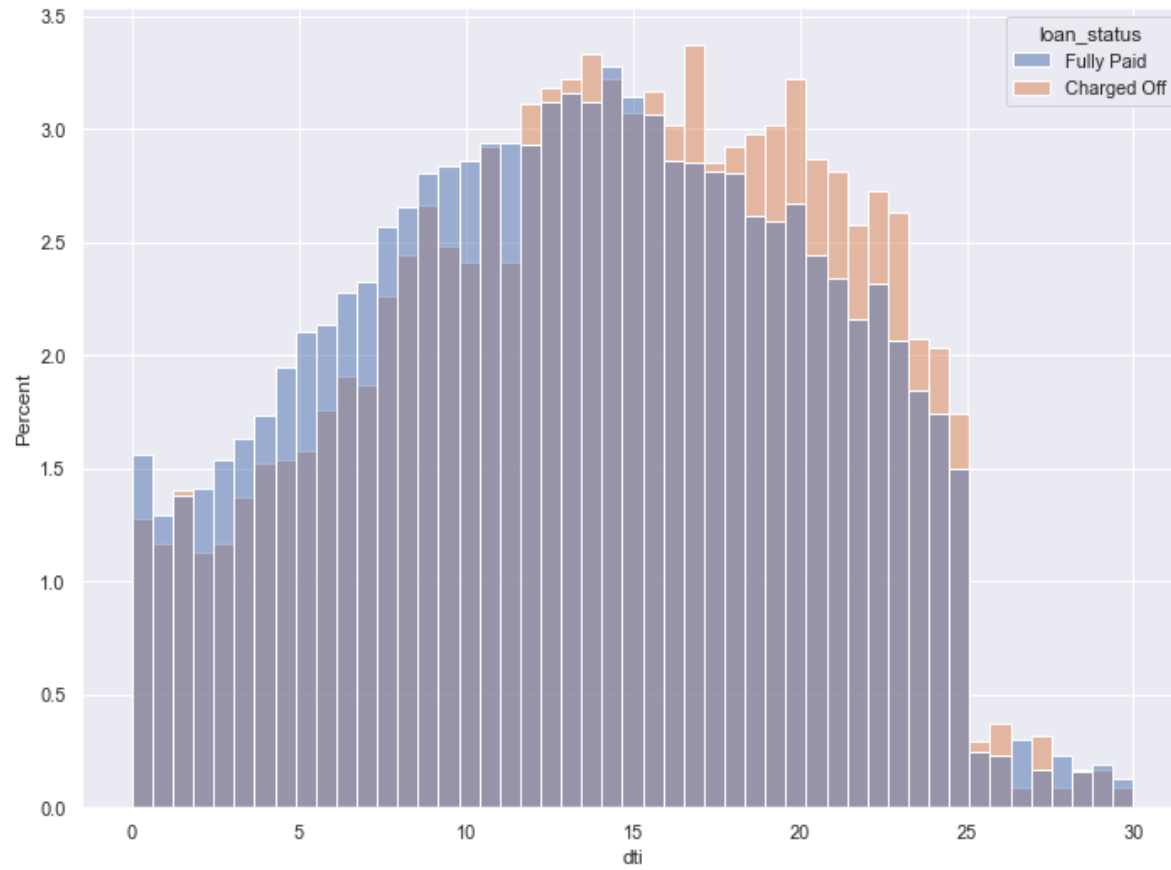
## Insights after analyzing the data





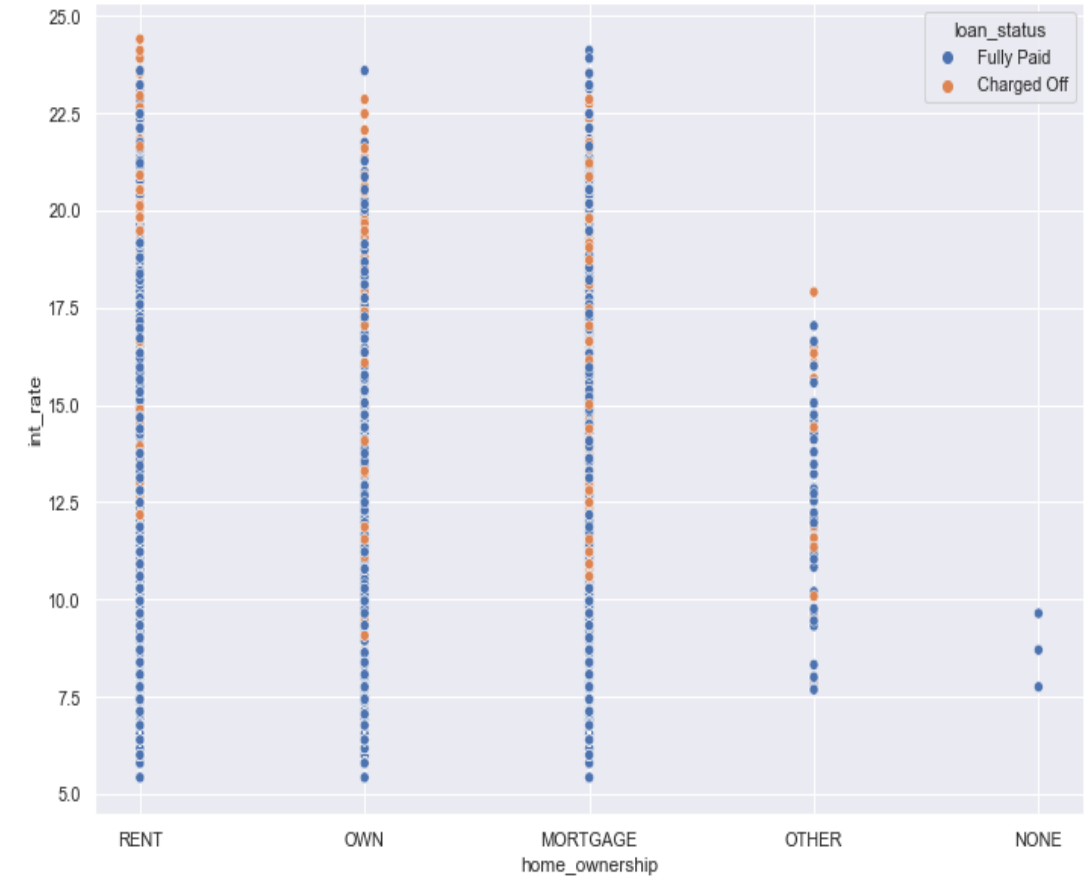
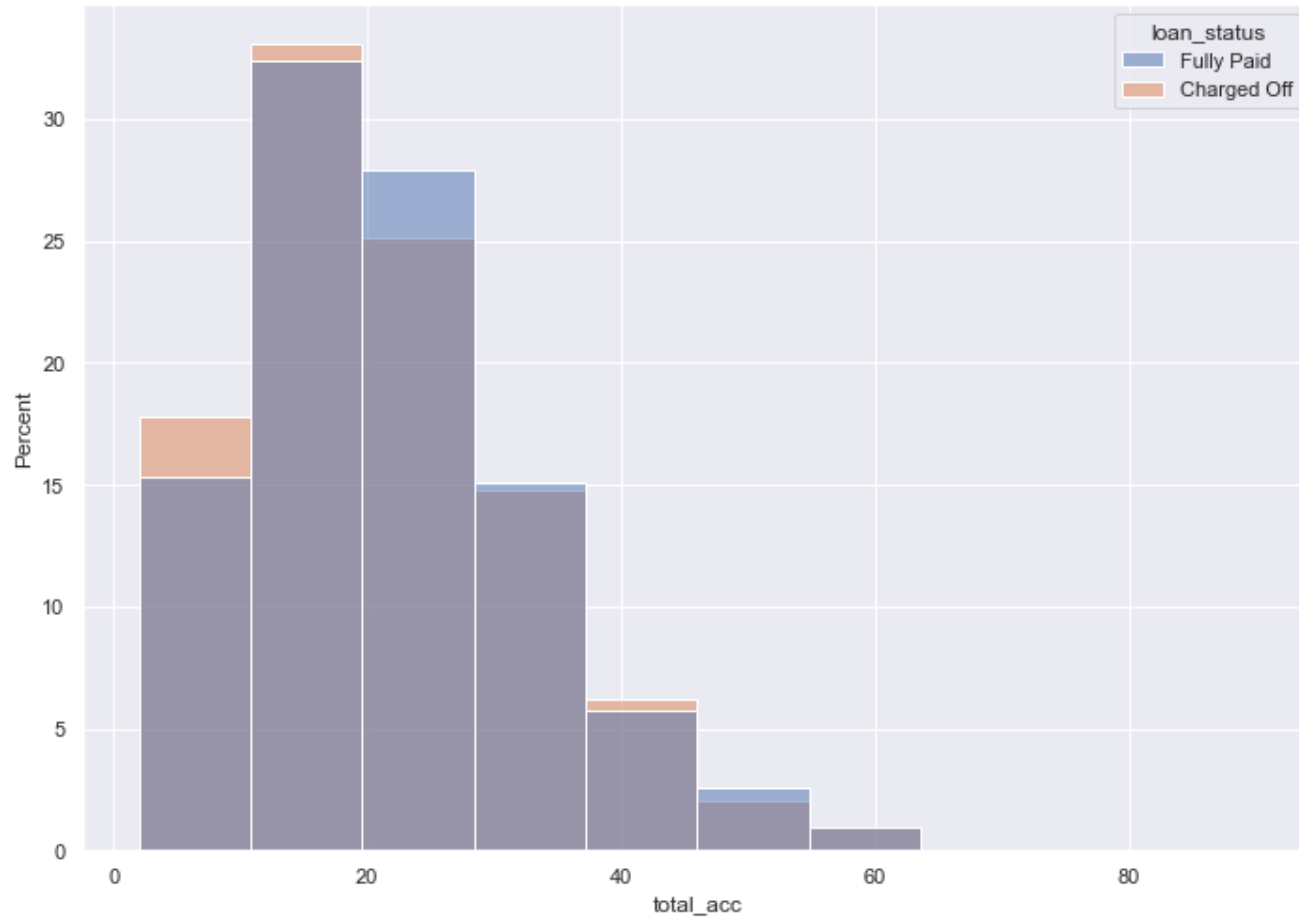
# Exploratory Data Analysis

## Insights after analyzing the data

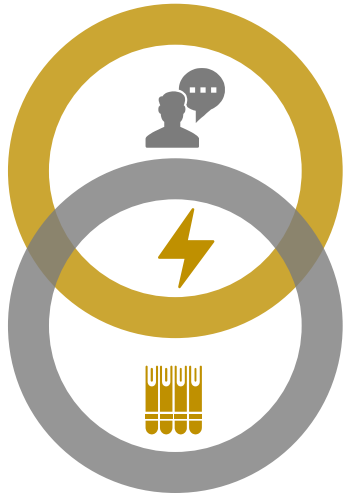


# Exploratory Data Analysis

## Insights after analyzing the data



# RECOMMENDATION



So for us only important factors are Fully paid and charged off for comparison

Fully paid : 83%

Charged off : 14.2%



It is clear that as sub grade decreases, then the chances of loan getting charged off increases.

Lending club should examine more information from borrowers before issuing loans to Low grade (G to A)



This endorses the previous assumption for home ownership, that having loan adds to liability, which the user with higher int rate doesn't able to pay his loan back and does gets Charged OFF



Only for 0 experience the charged off percentage is more than 20, for the rest it is increasing slowly with experience (maybe as less experience people are bachelors thus less responsibility, and more experience are with family)



Lending club should reduce the high interest loans for 60 months tenure, they are prone to loan default



Charged off tends to increase when dti increases



lower the enquires higher are the chances of payment



For revol\_acc > 8515 i.e. the median, the charged off is higher by 5%



Clearly shows that having total\_acc between 0 and 20, increases the chances of Charged Off