Lending Club Case Study

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Business Problem

- I work for a consumer finance company which specialises in lending various types of loans to urban customers. When the company receives a loan application, the company has to make a decision for loan approval based on the applicant's profile.
- The company 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 company wants to understand the driving factors (or driver variables) behind loan default, i.e. the variables which are strong indicators of default. The company can utilise this knowledge for its portfolio and risk assessment.

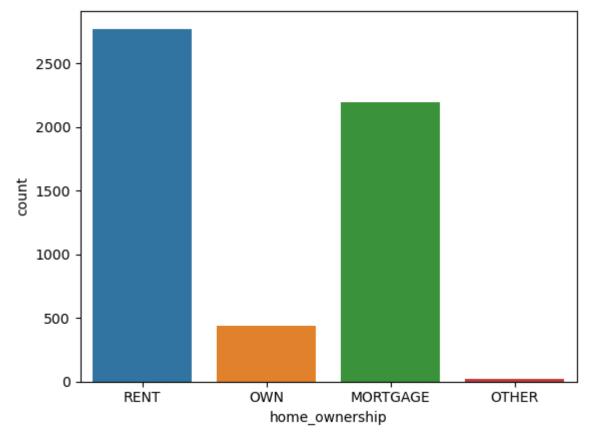
Analysis Approach

We'll do the Exploratory Data Analysis based on the data provided to identify the correlation among the features.

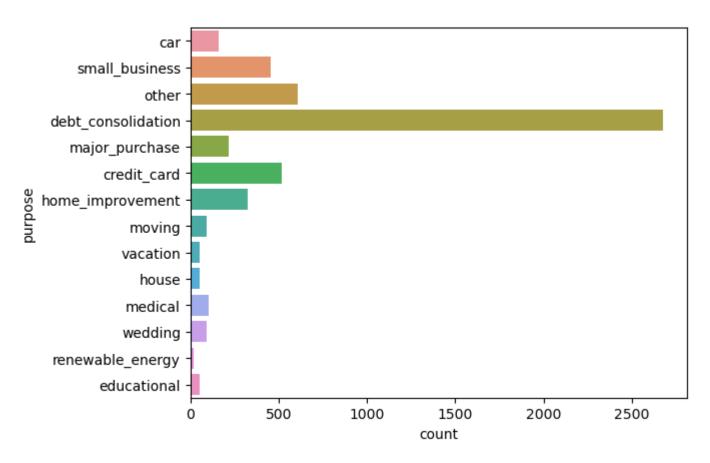
Approach:

- 1. Data Cleansing
- 2. Univariate/Bivariate data analysis
- 3. Hypothesis generation

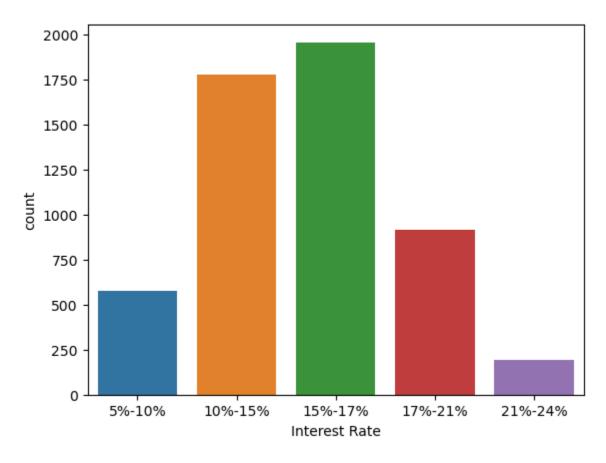
Applicants having house_ownership as 'RENT'



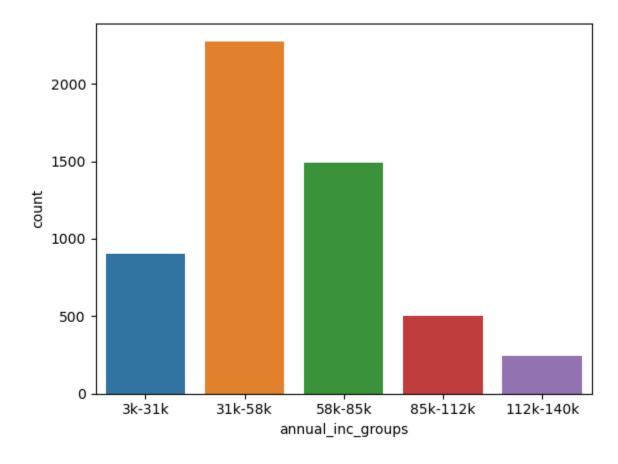
Purpose of loan is "Debt Consolidation"



Interest rate is 15-17%



Annual income is between 31k to 58k



- Applicants having house_ownership as 'RENT'
- Applicants who use the loan to clear other debts
- Applicants who receive interest at the rate of 15-17%
- Applicants who have an income of range 31k 58k
- Applicants who have 20-37 open_acc
- Applicants with employement length of 10
- When funded amount by an investor is between 5000-10000
- Loan amount is between 5k 10k
- Dti is between 12-18
- When monthly instalments are between 140-275
- Term of 36 months
- When the loan status is Not verified
- When the no of enquiries in the last 6 months is 0
- When the number of derogatory public records is 0
- When the purpose is 'debt consolidation'