

Lending Club Case Study

PRESENT BY

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AGENDA

- ▶ PROBLEM STATEMENT
- ▶ DATA CLEANING
- ▶ ANALYSIS
- ▶ FINDINGS

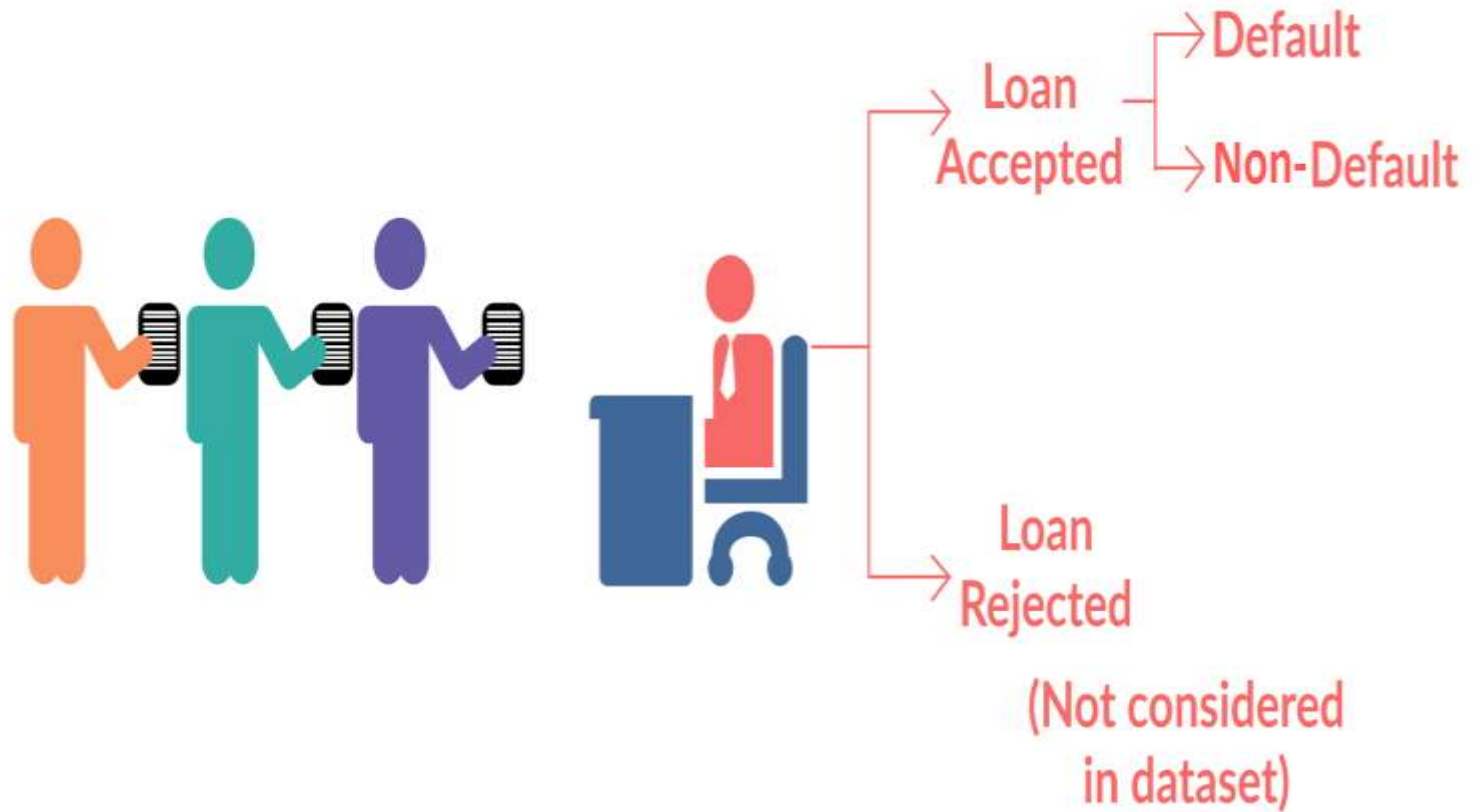
Problem statement

You 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.

Two **types of risks** are associated with the bank's decision:

- ▶ If the applicant is **likely to repay the loan**, then not approving the loan results in a **loss of business** to the company
- ▶ If the applicant is **not likely to repay the loan**, i.e. he/she is likely to default, then approving the loan may lead to a **financial loss** for the company

Loan dataset



DATA CLEANING

- ▶ Need to fix rows and columns
- ▶ Drop columns which not required
- ▶ Need to fix missing values
- ▶ Derived Columns

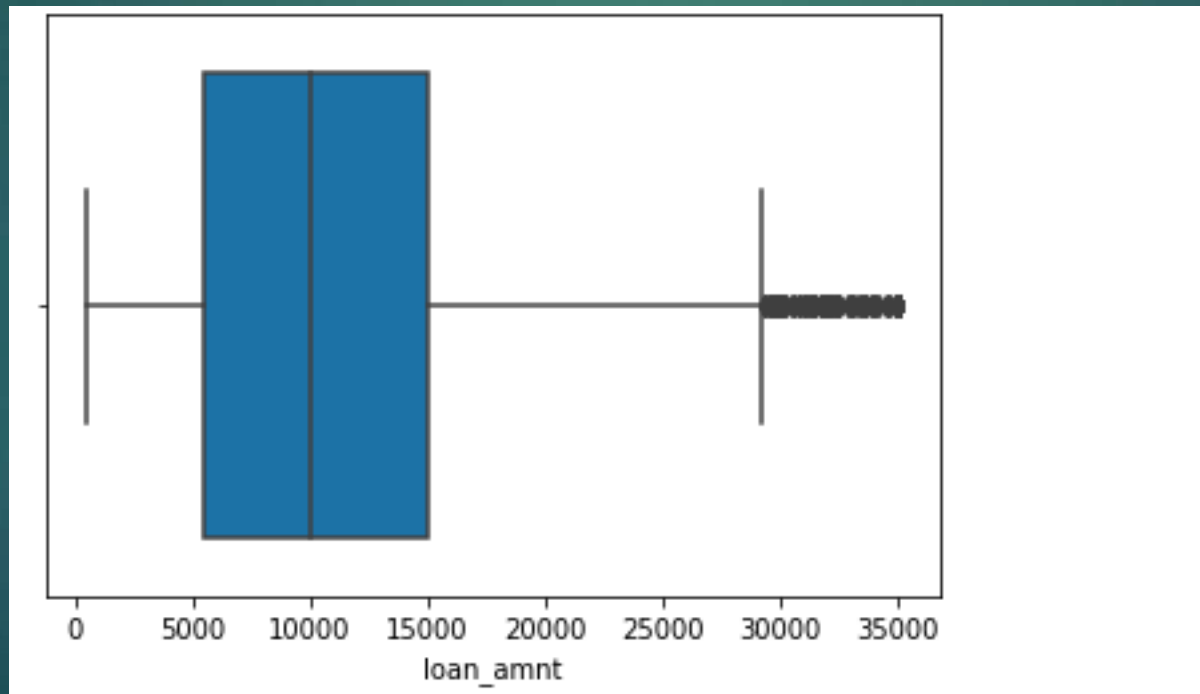
ANALYSIS

AFTER CLEANING THE DATA WE CAN USE THESE TWO ANALYSIS TO UNDERSTAND THE DATA

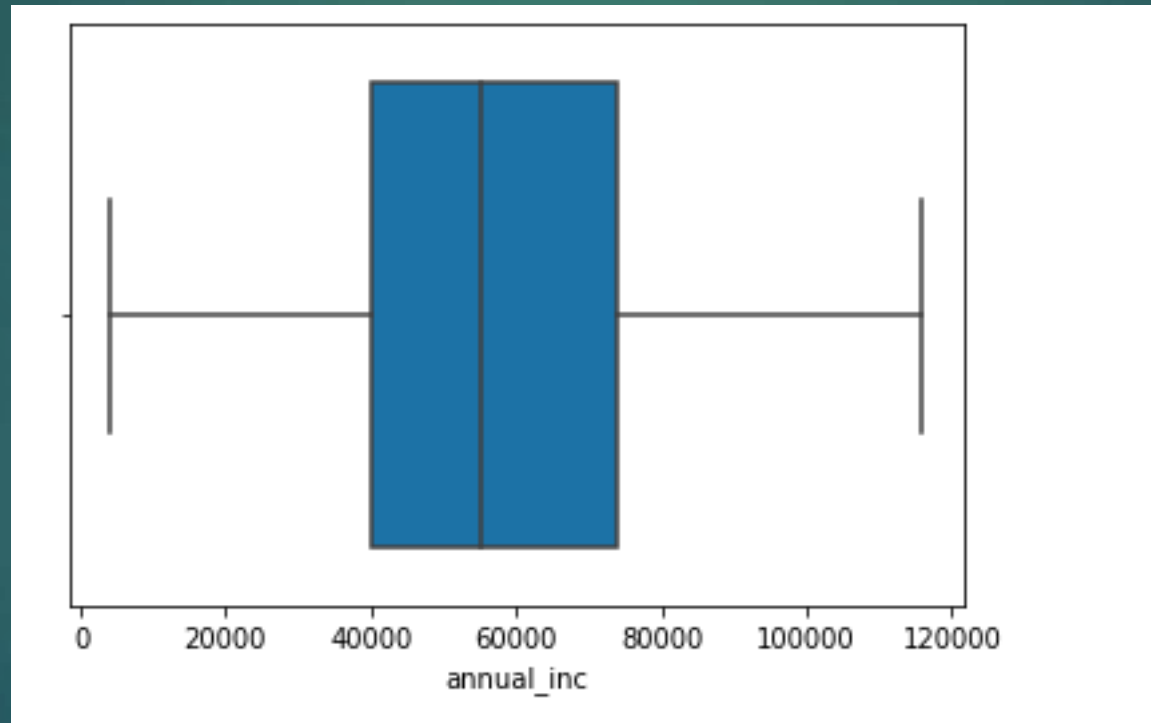
- ▶ 1. Univariate analysis
- ▶ 2. Bivariate analysis

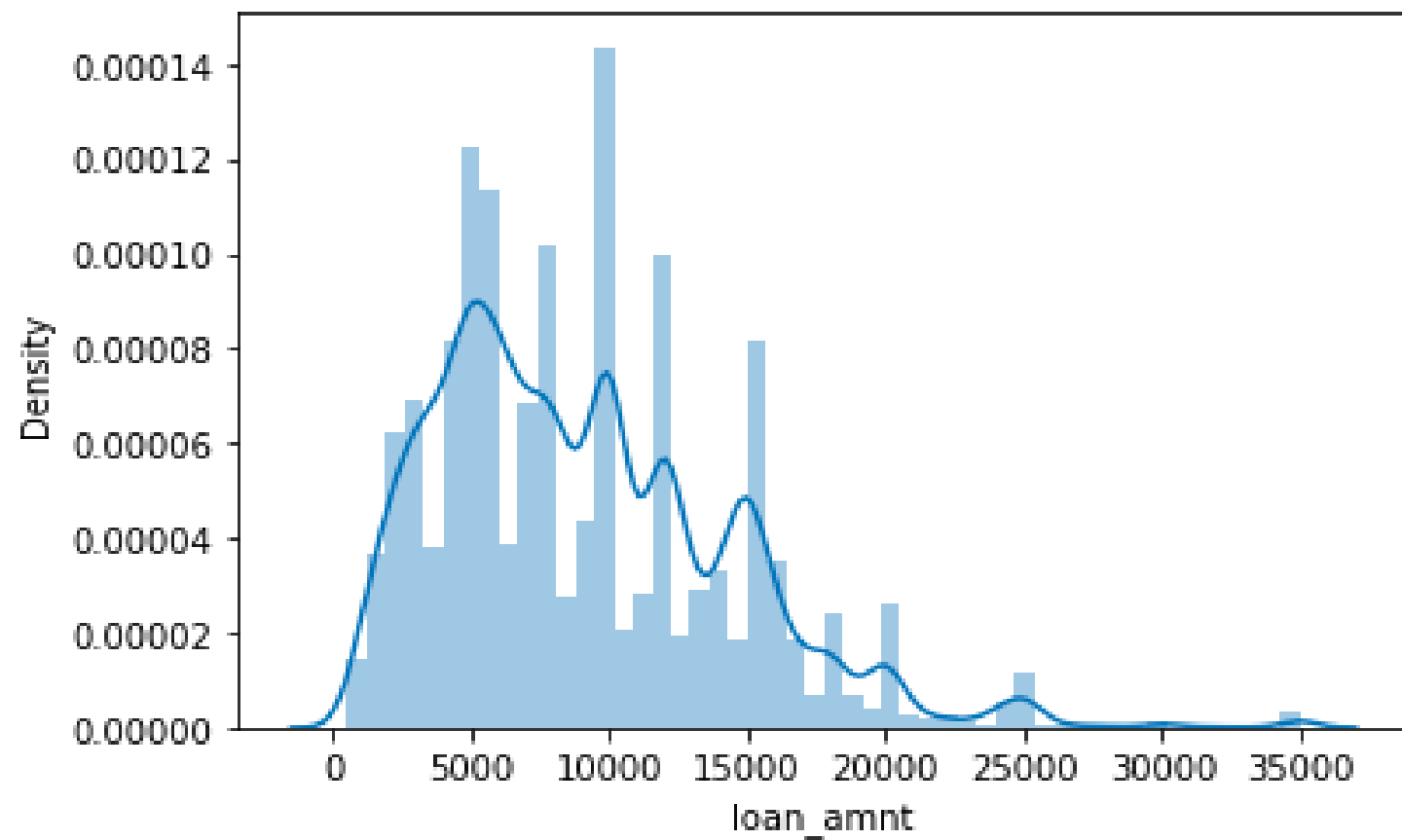
Univariate analysis

Mostly people taking loan between 5k to 15 k

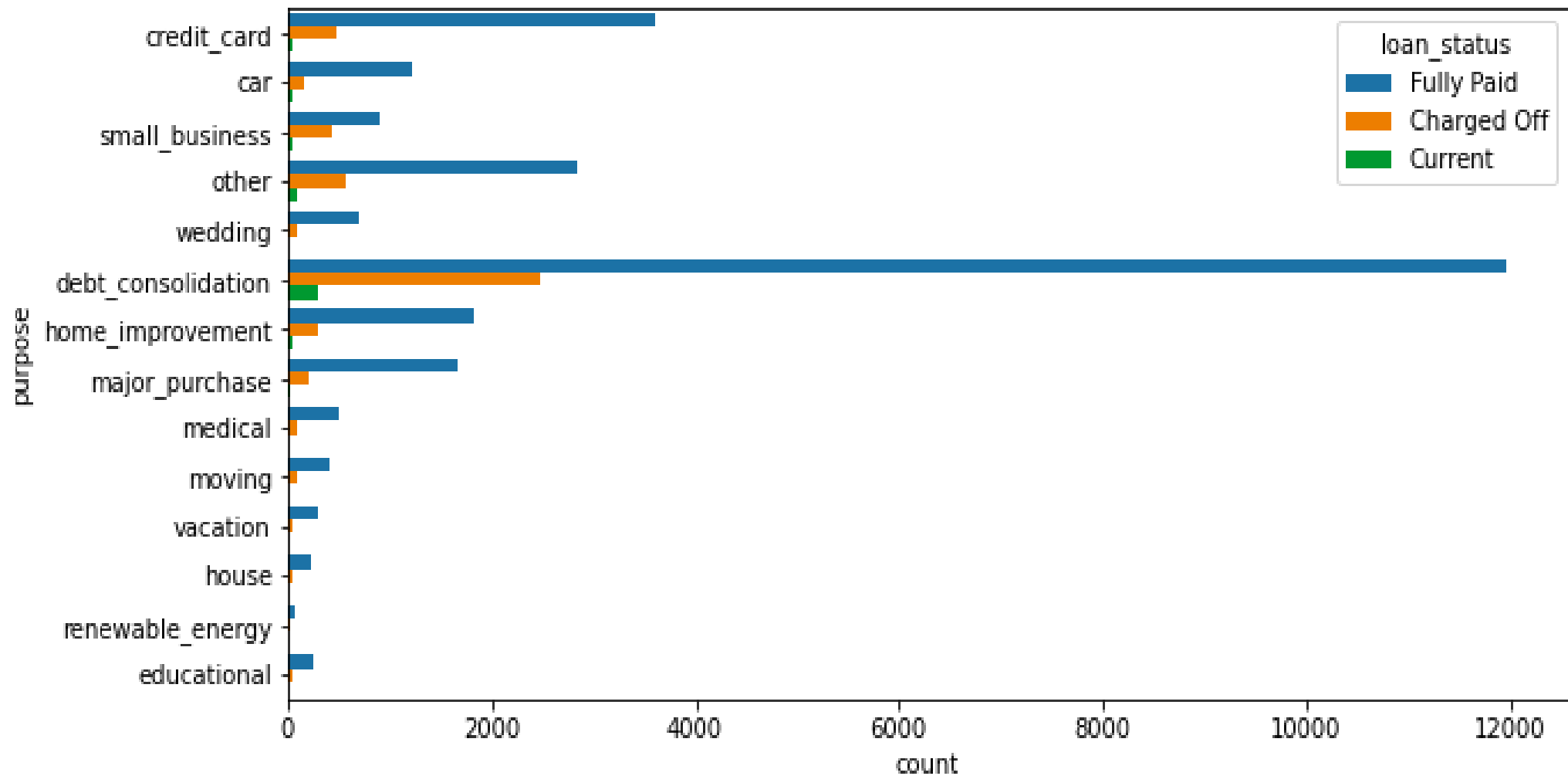


As per annual income people those are interested in
Loan

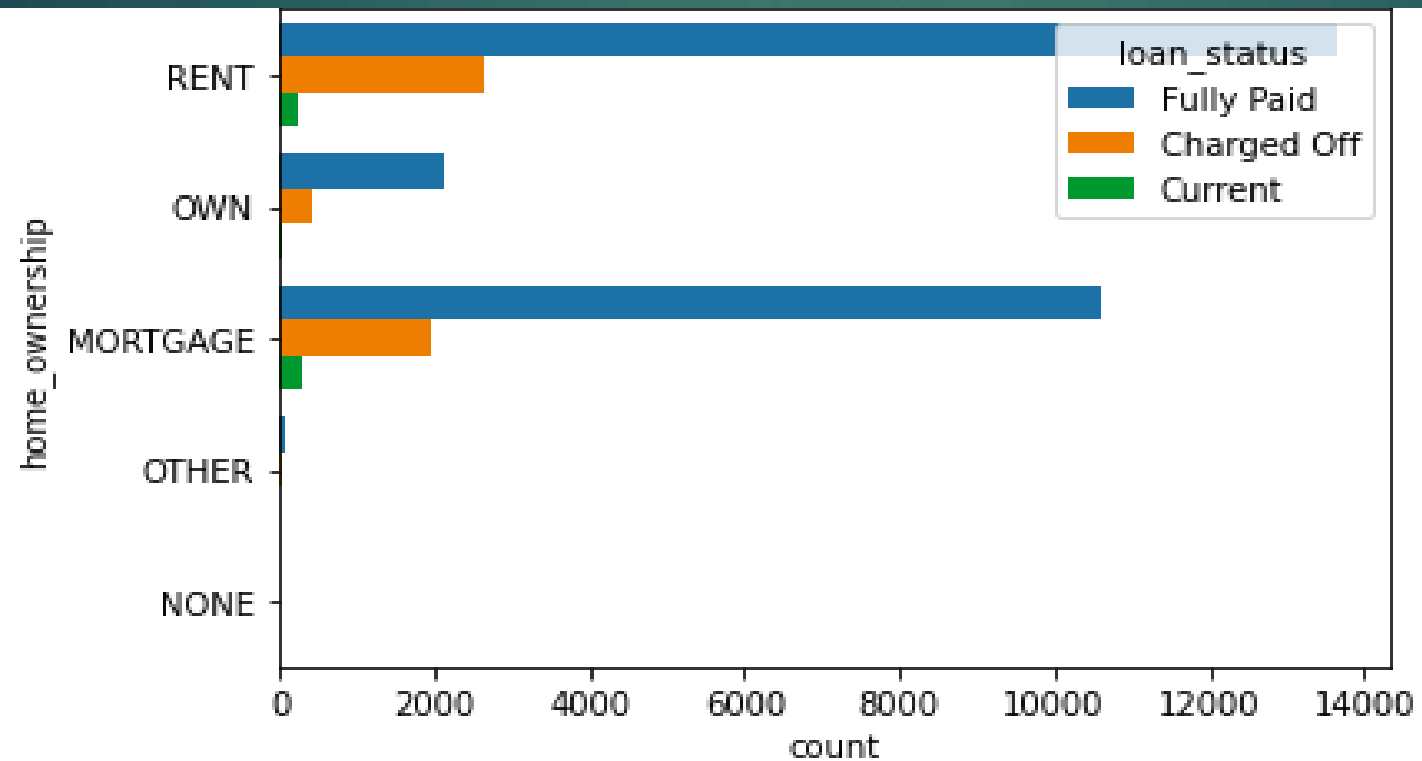




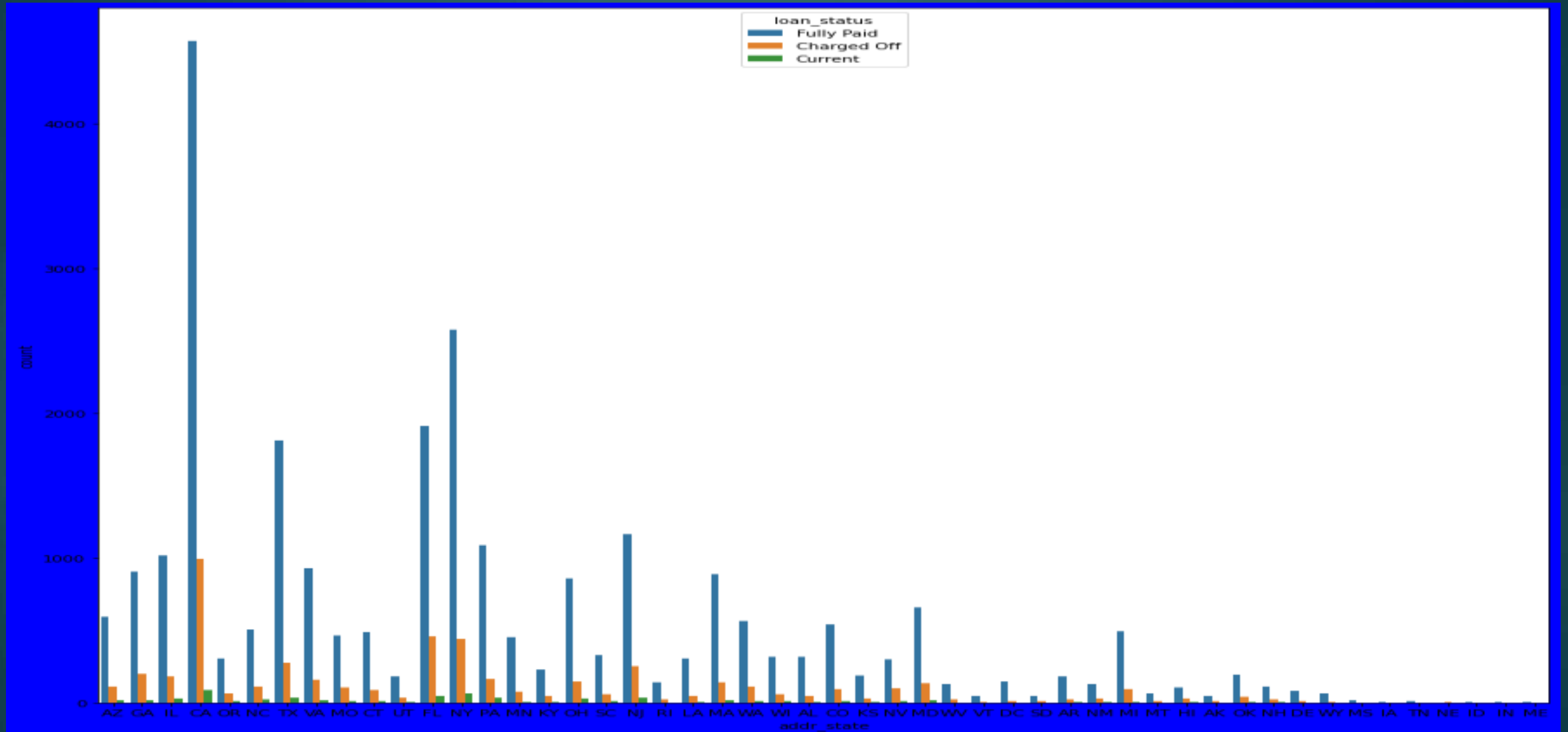
On the basis of purpose why people taking loan



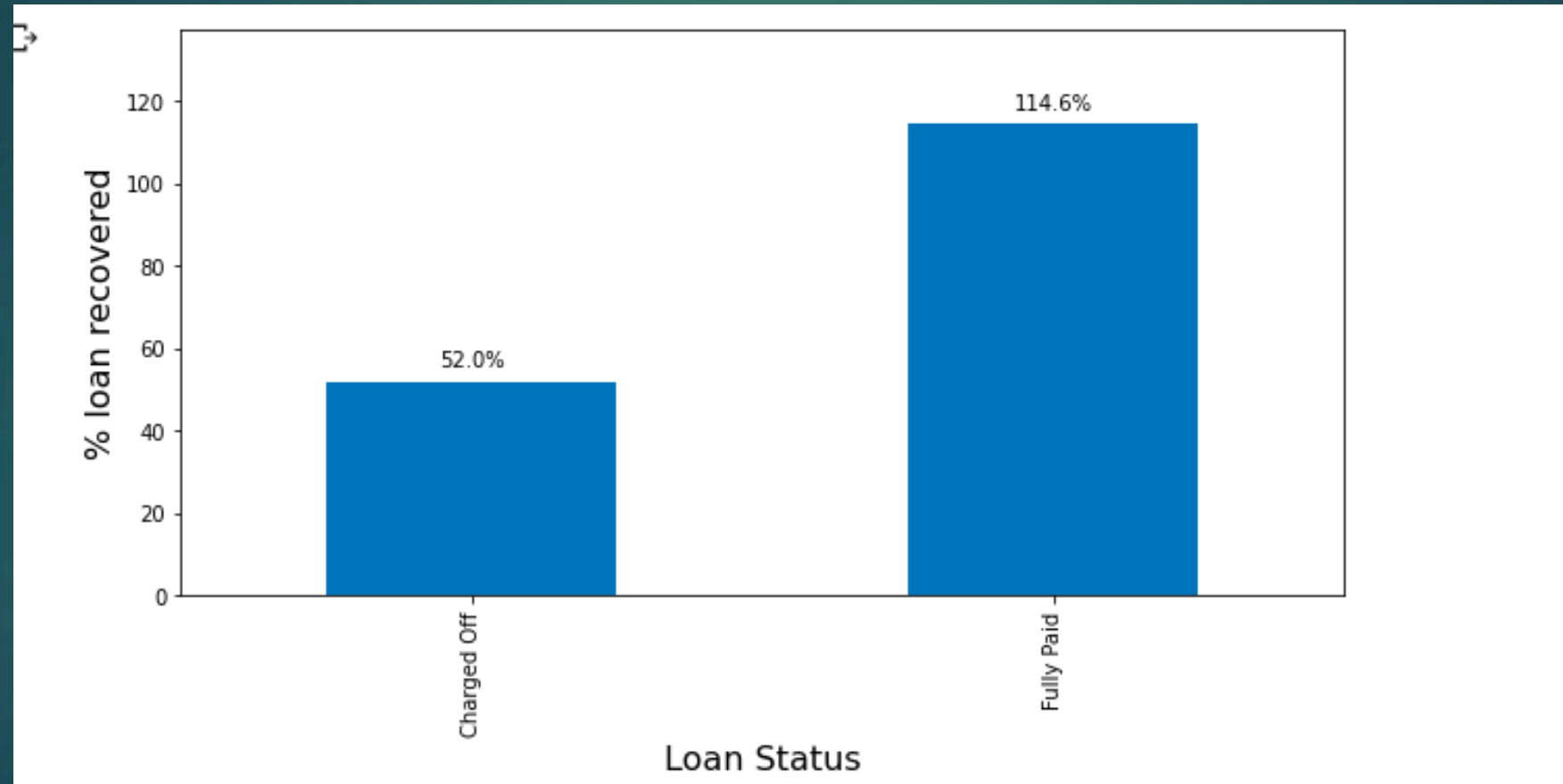
People those are living on rent are more interested on loan



Acording to state where people taking more loan



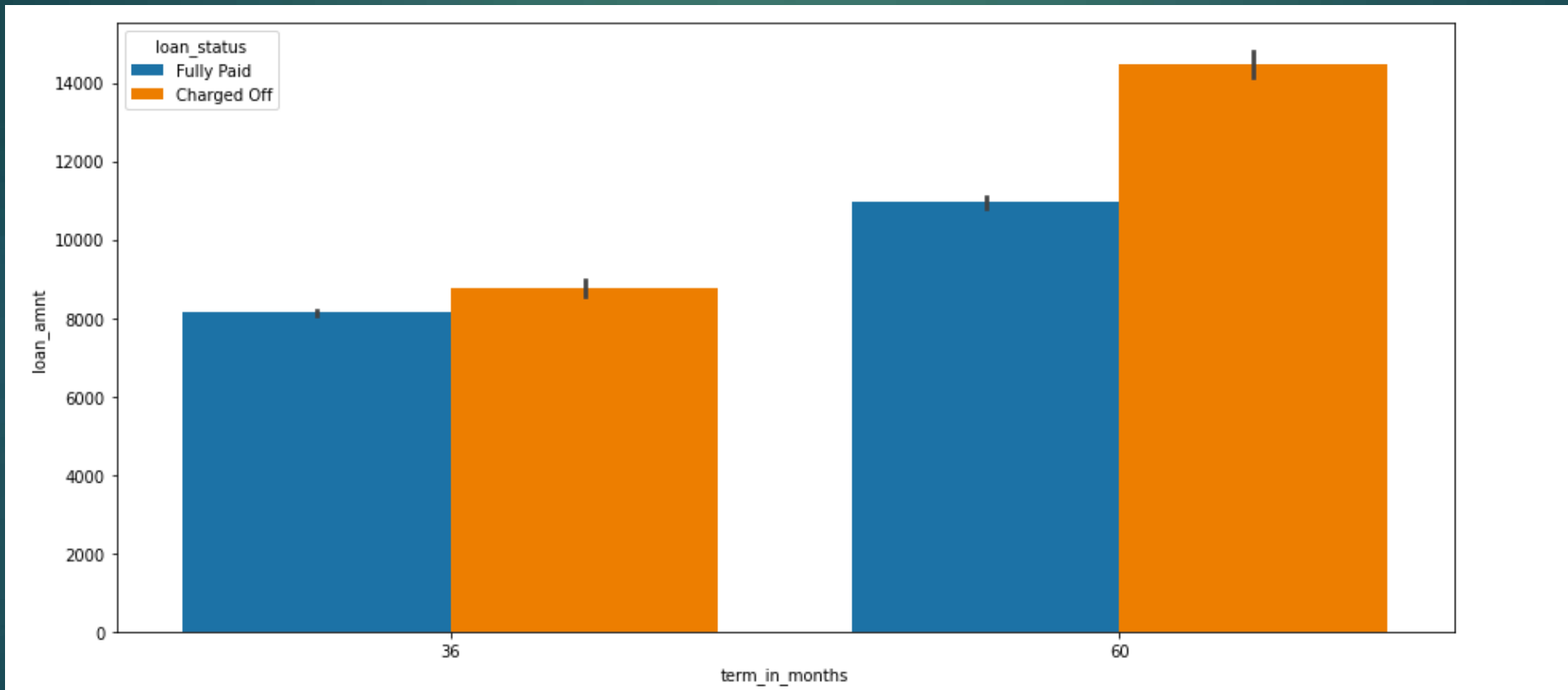
Observation: 52 % Loan amount is recovered from defaulters



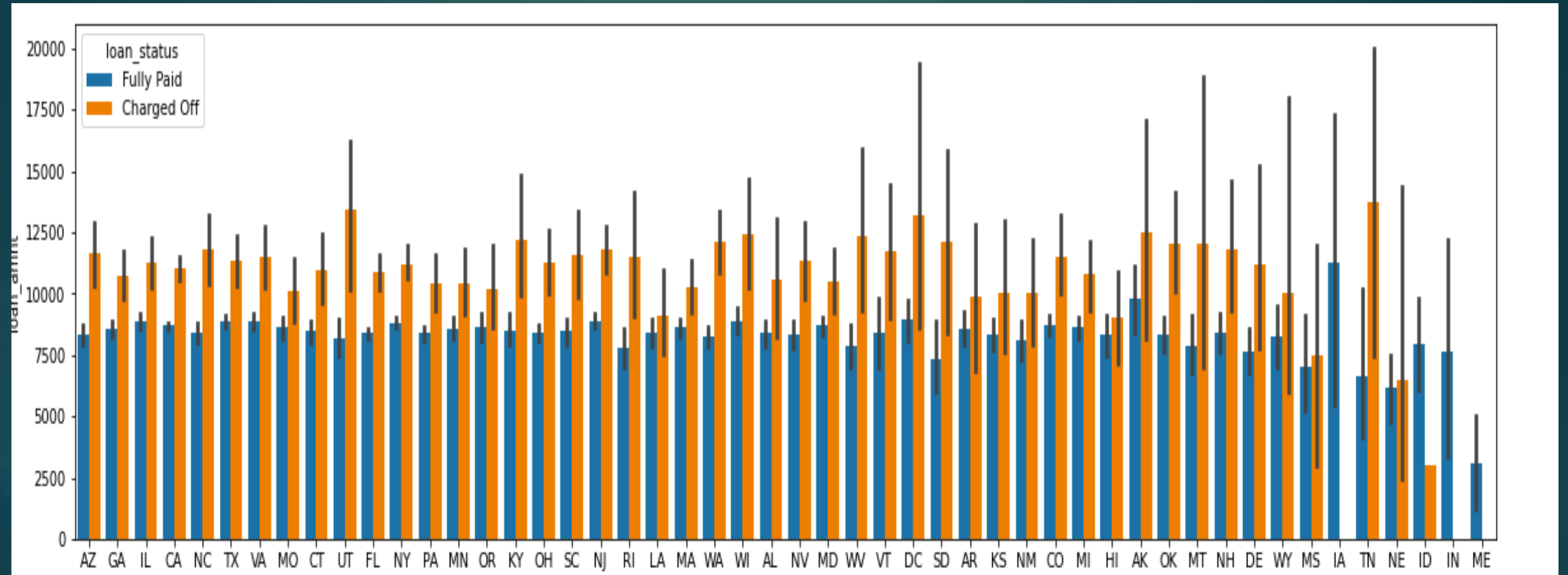
Bivariate analysis

Observation:

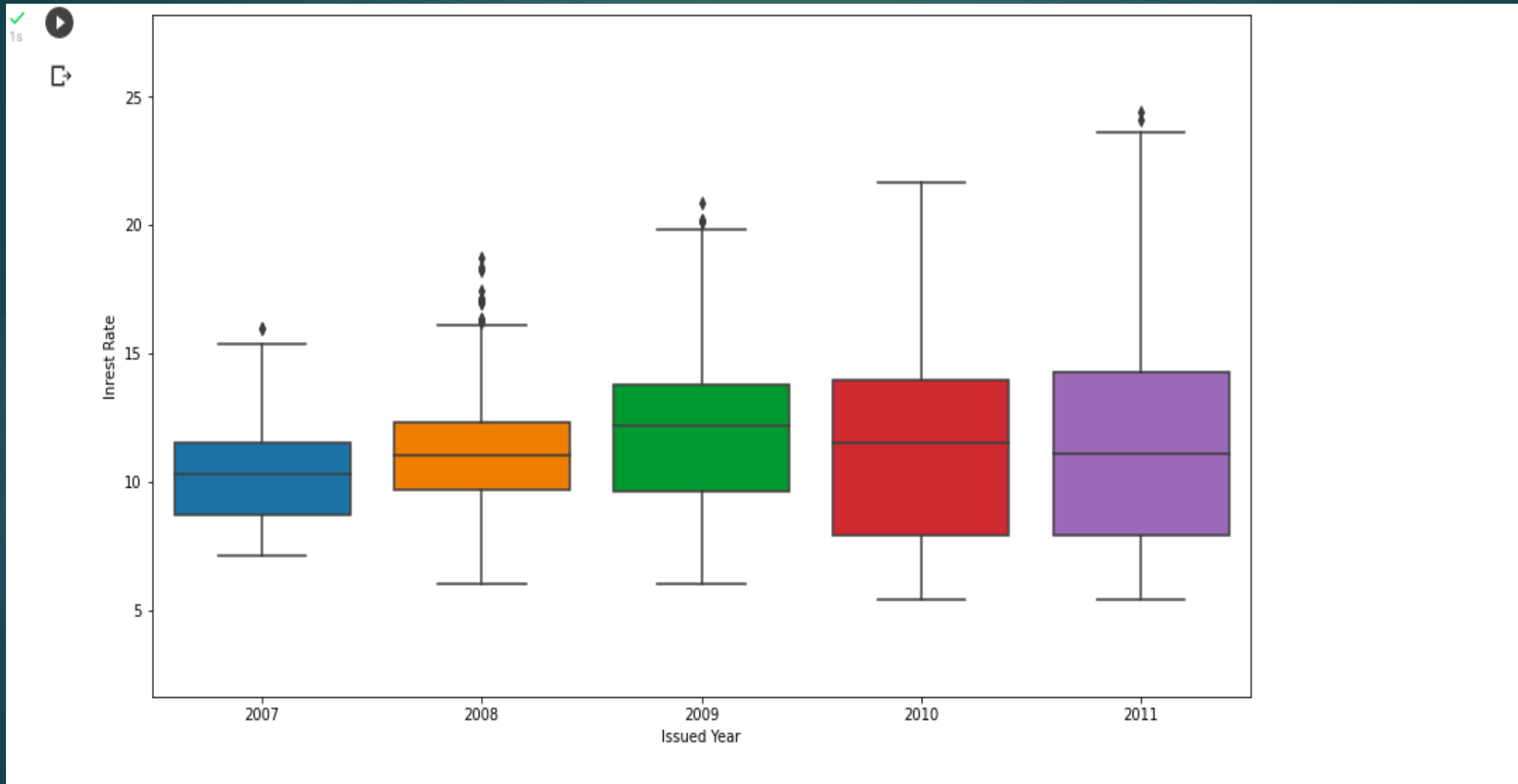
As per the analysis, Higher the term and loan amount, higher Charged off's



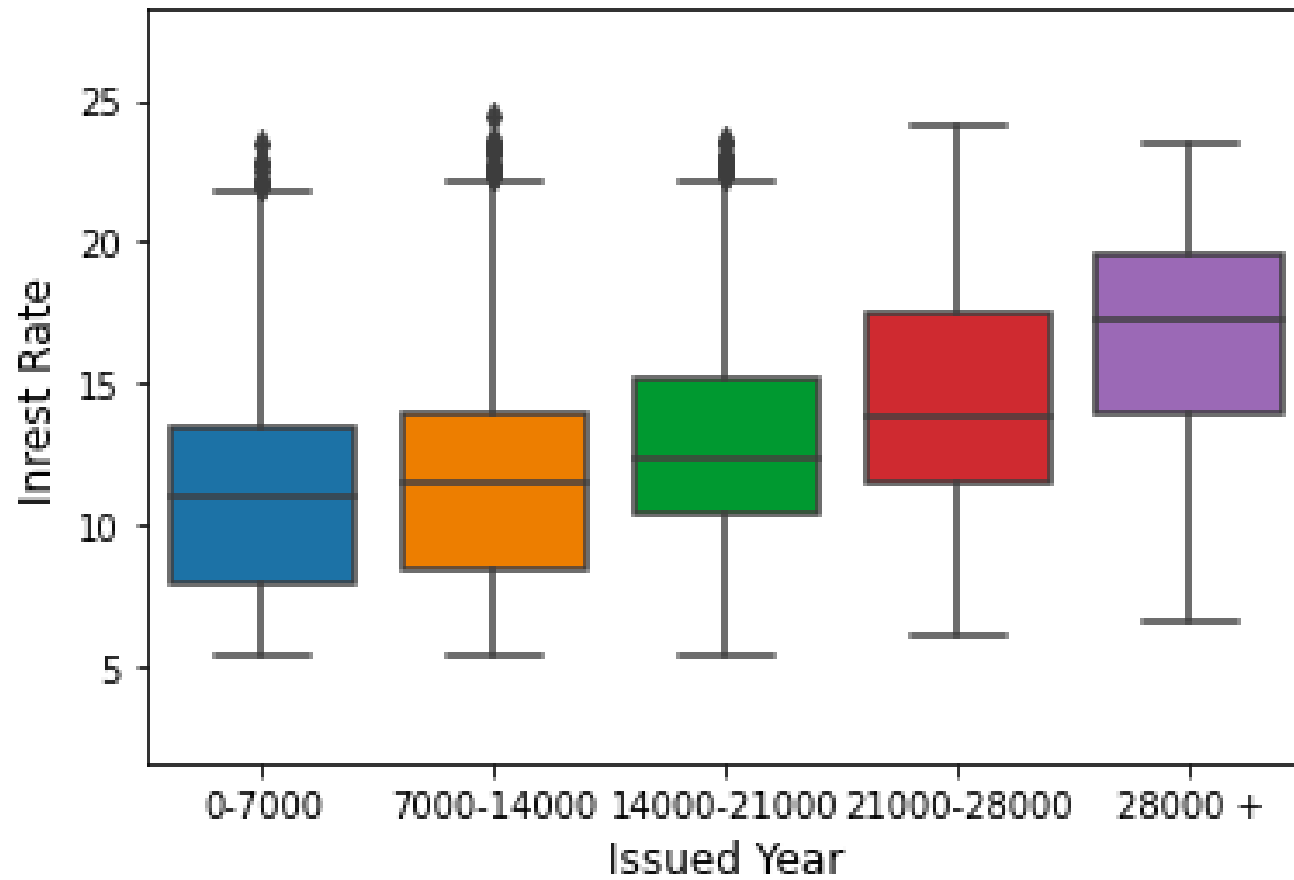
Observation : State Ak has Higher loan amount that is charged off



Observation: Interest rate is increased with each year



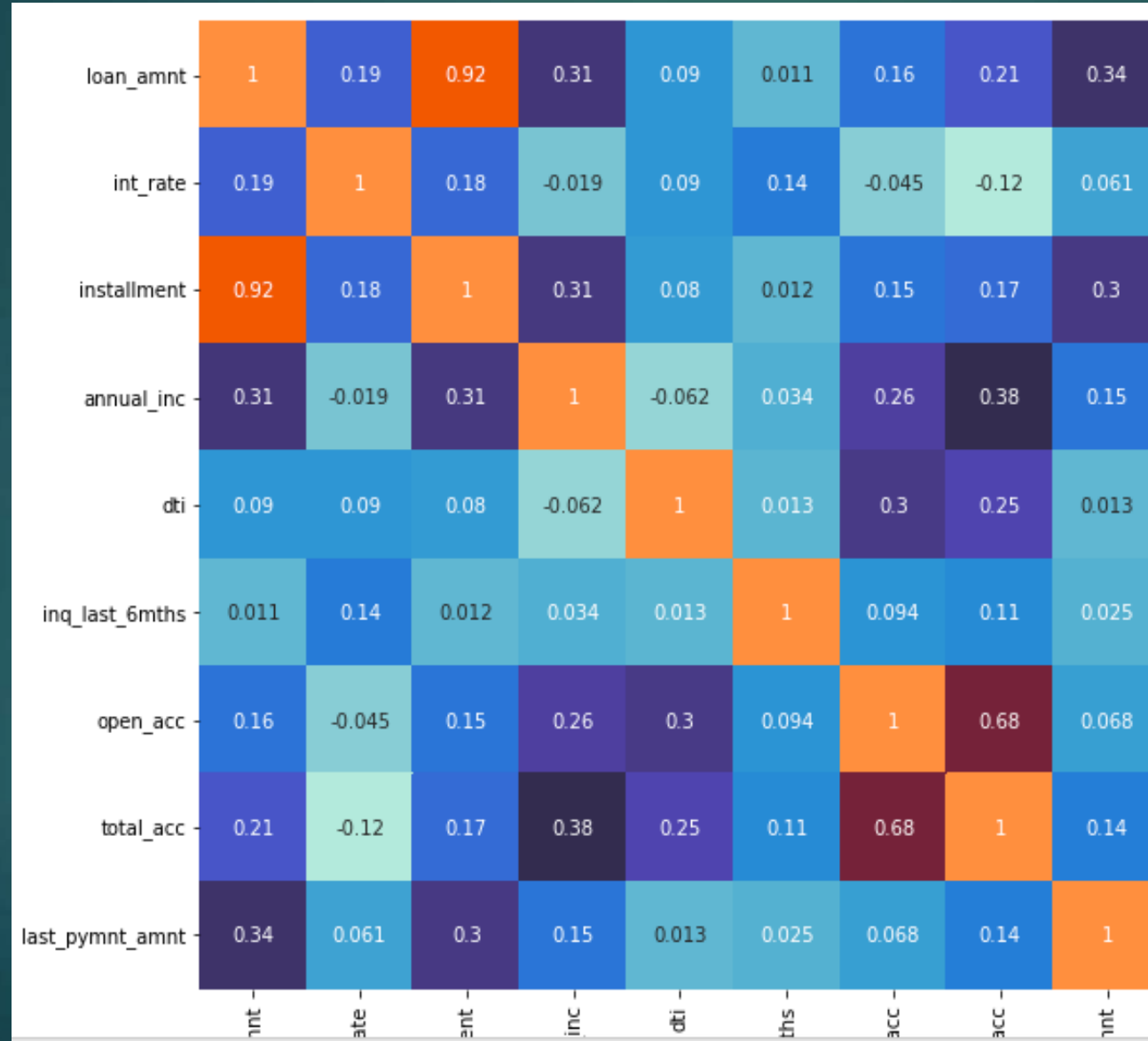
Observation: Intrest rate is also increased when Loan amount increase



Observation:

Loan amount and installment has high correlation

Annual Income and int_rate has negative correlation



Q&A



THANK YOU!