

Lending Club Case Study

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Loan data set analysis

In lending club case study I perform this following steps :-

1. Load the data
2. Check meta data /sanity check
3. Data cleaning
4. Missing value handle
5. EDA

univariate analysis

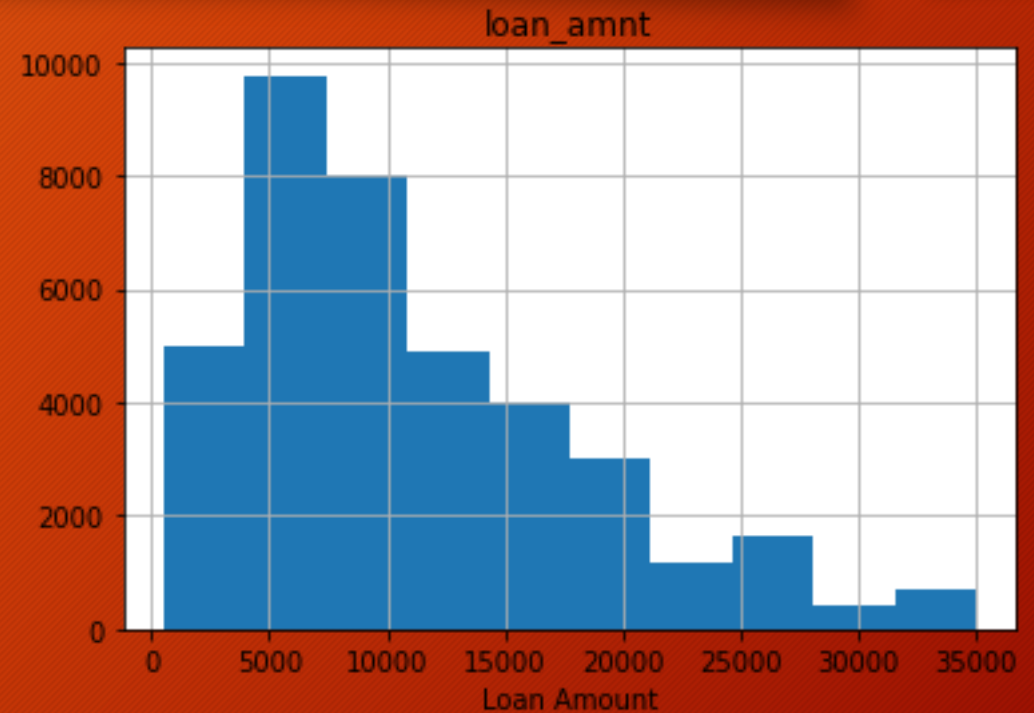
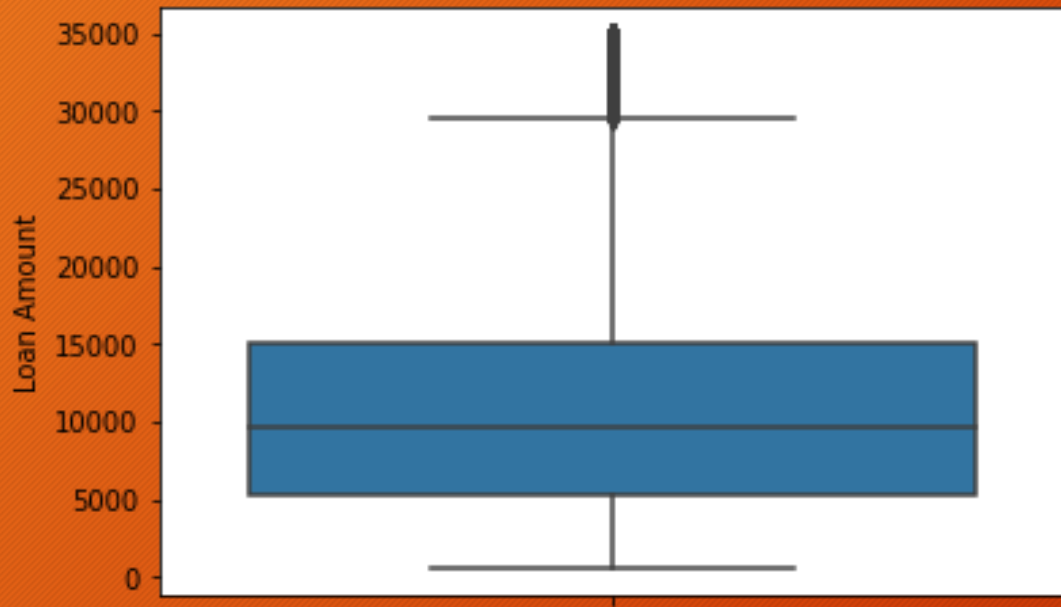
segment univariate analysis

bivariate analysis

Lending Club Case Study Analysis

- In this lending club case study understand about column attribute and it's meta data
- After this I perform the **Data Cleaning and missing value handling** of loan data set
 1. Find the null columns and remove from data set
 2. some change the value and created new column
- I perform **EDA** in this I use following steps :-
 1. **Univariate analysis, segment univariate analysis and bivariate analysis** in this I choose imported some columns and based on that data displaying some plots and charts like box , bar , histogram, Heatmap etc.

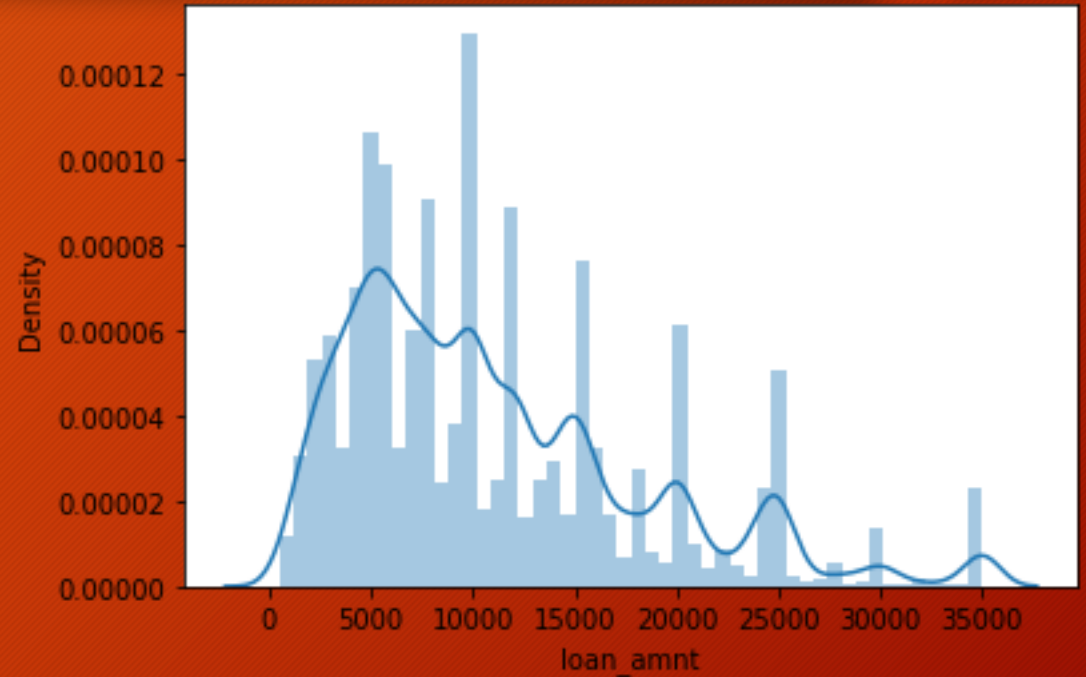
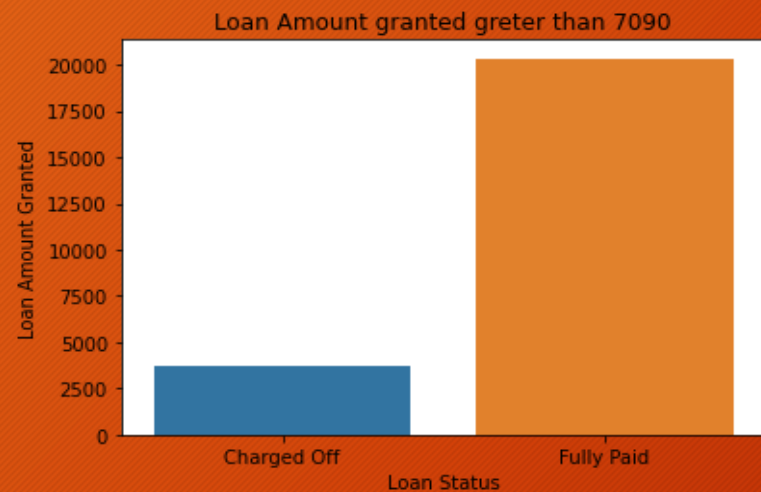
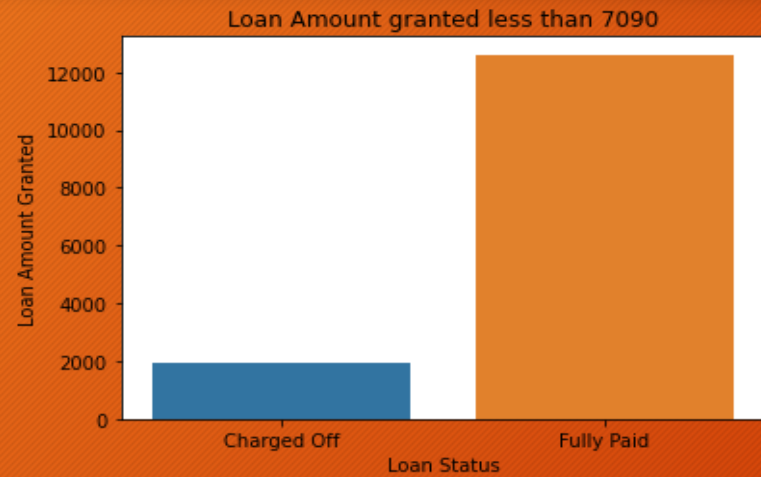
Loan Amount Analysis



Observation

- Mostly loan amount is in between 5000 to 10000
- Loan amount mean value is 1000

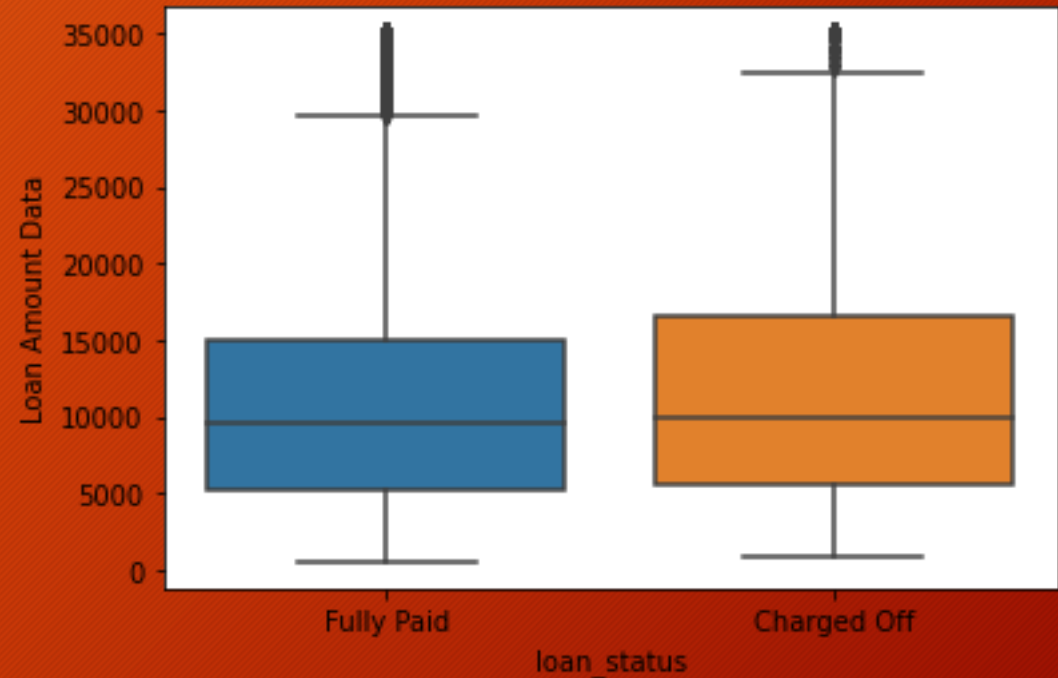
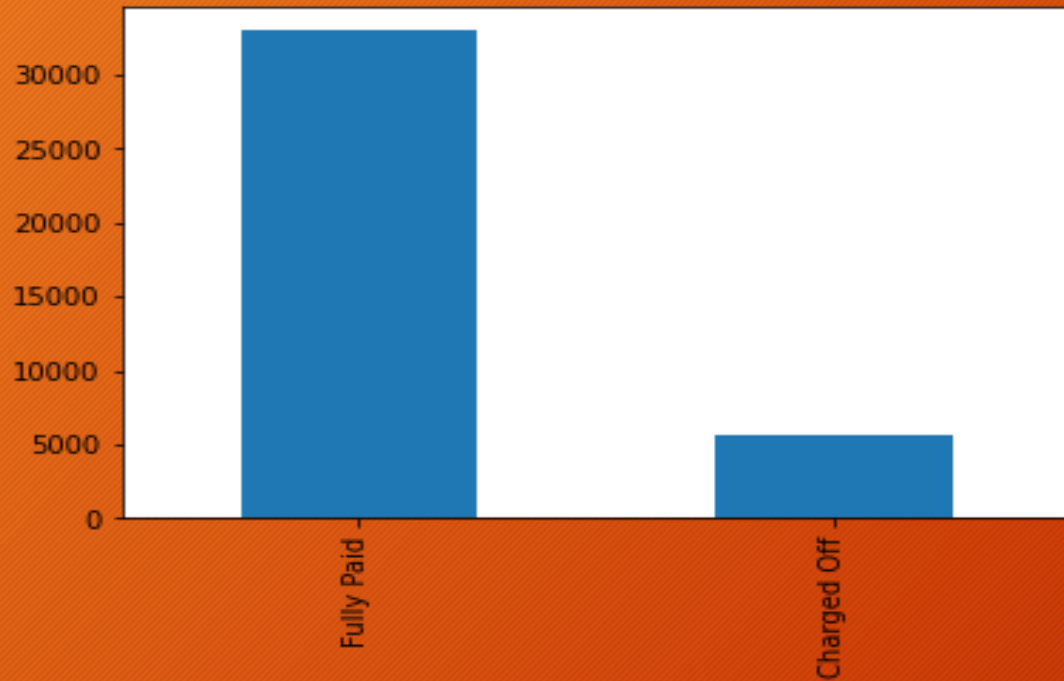
Loan amount analysis



Observation

- Most of the loan amount is below 7090
- 7090 above people high chance to be defaulters

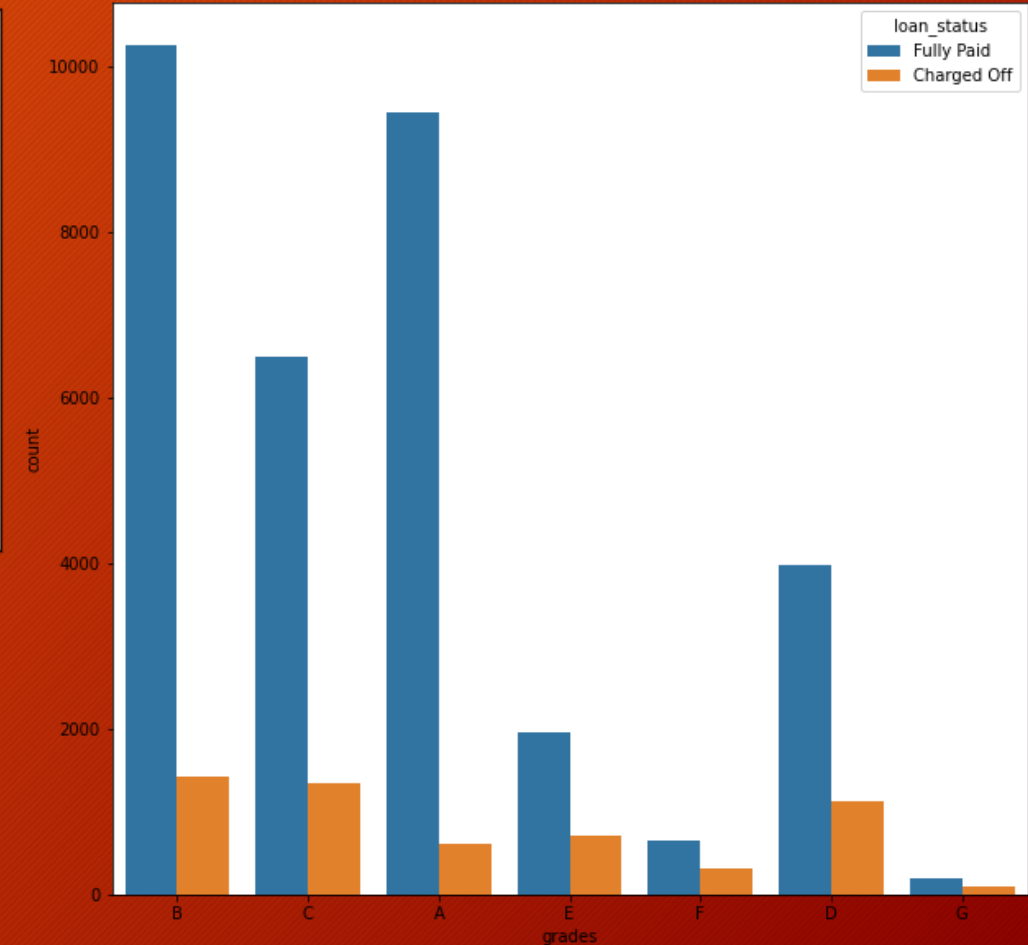
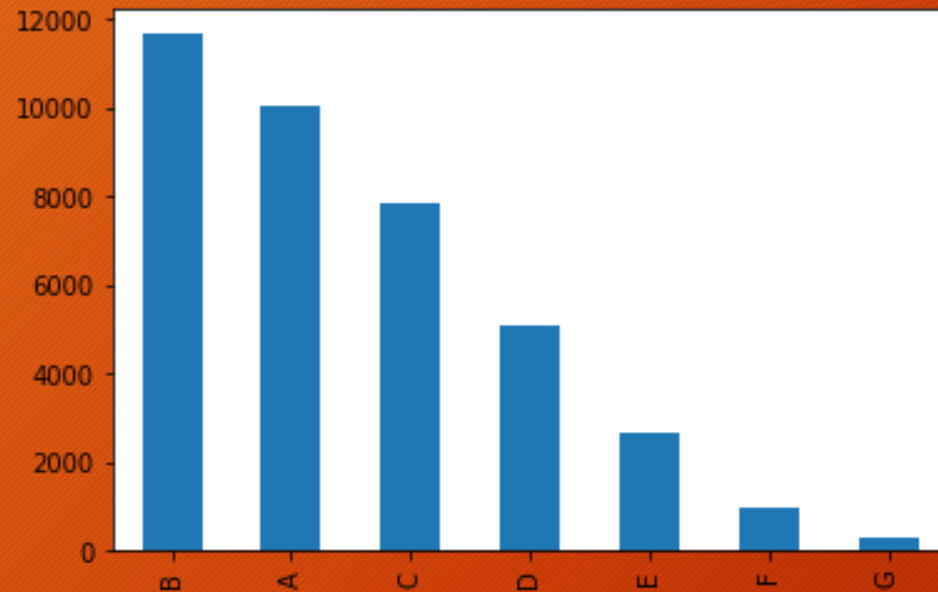
Loan Status Analysis



Observation

- Most of the loans are Fully Paid
- Nearly equal to 15% current loan status which is defaulters
- 50% percentile is all most same for both status

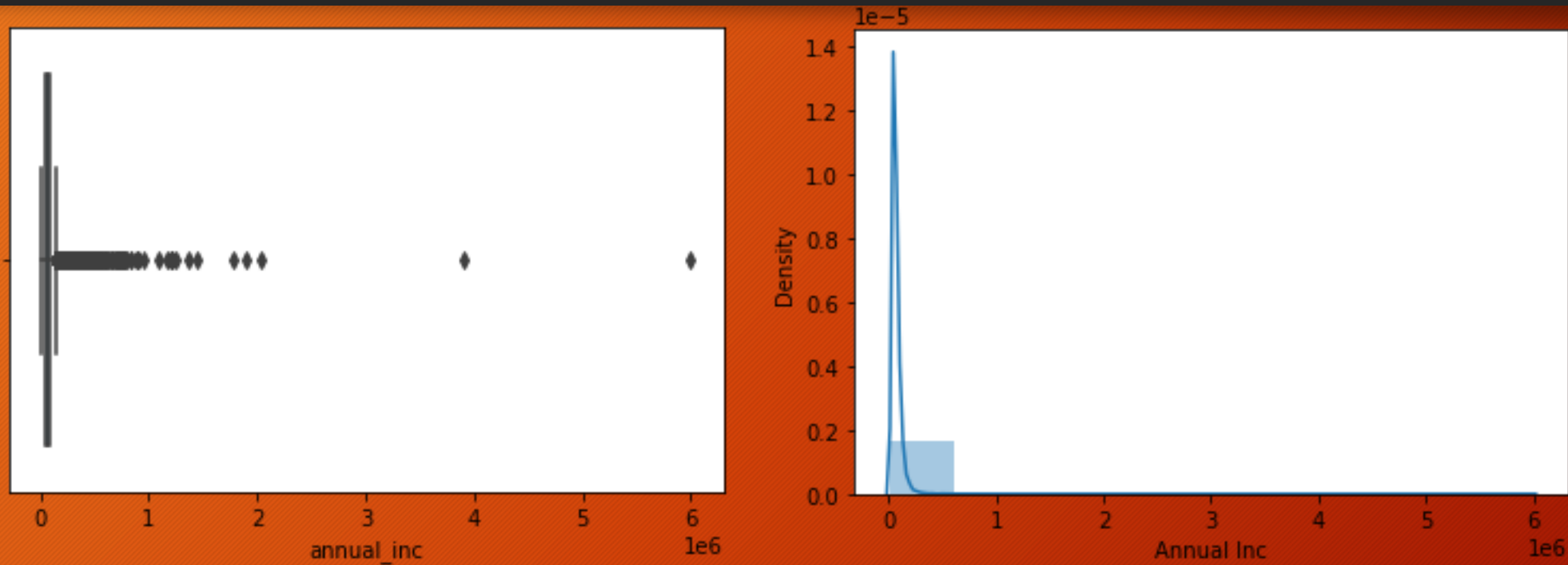
Loan Grades Analysis



Observation

- Mostly applicant select B, A grads type loan
- Both loan status are prefer loan B, A

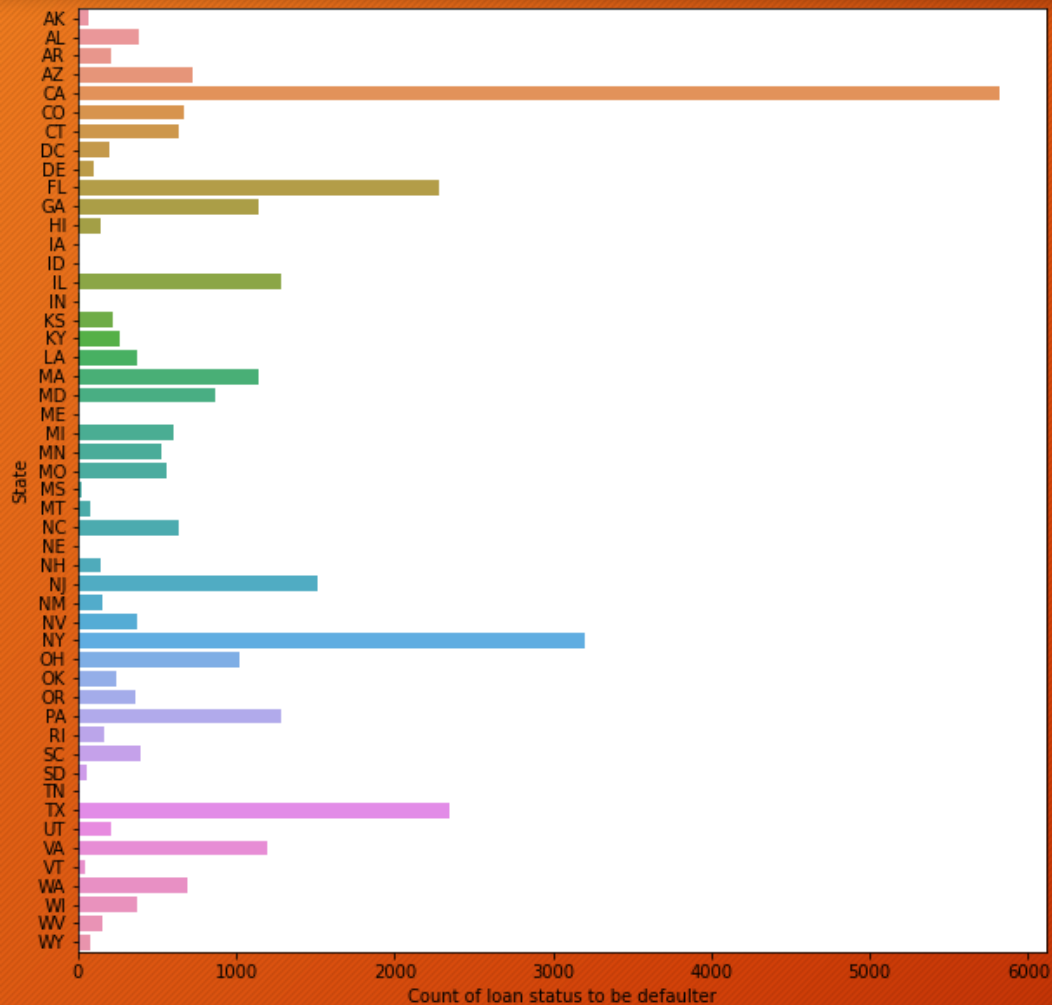
Loan applicant annual income analysis



Observation

- Most of the applicant income in between is 0 to 1
- Only 5 applicant annual income is above 1.7

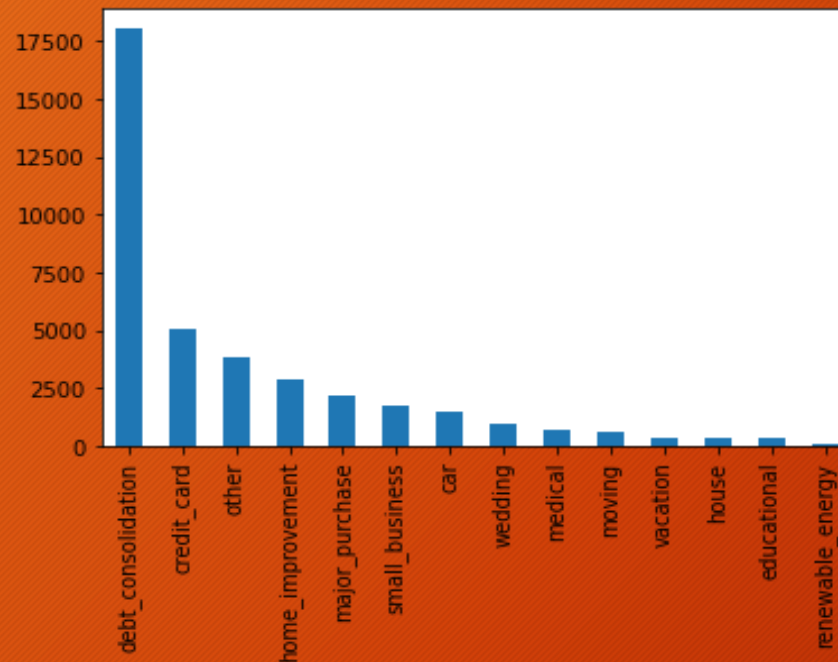
Loan State analysis



Observation

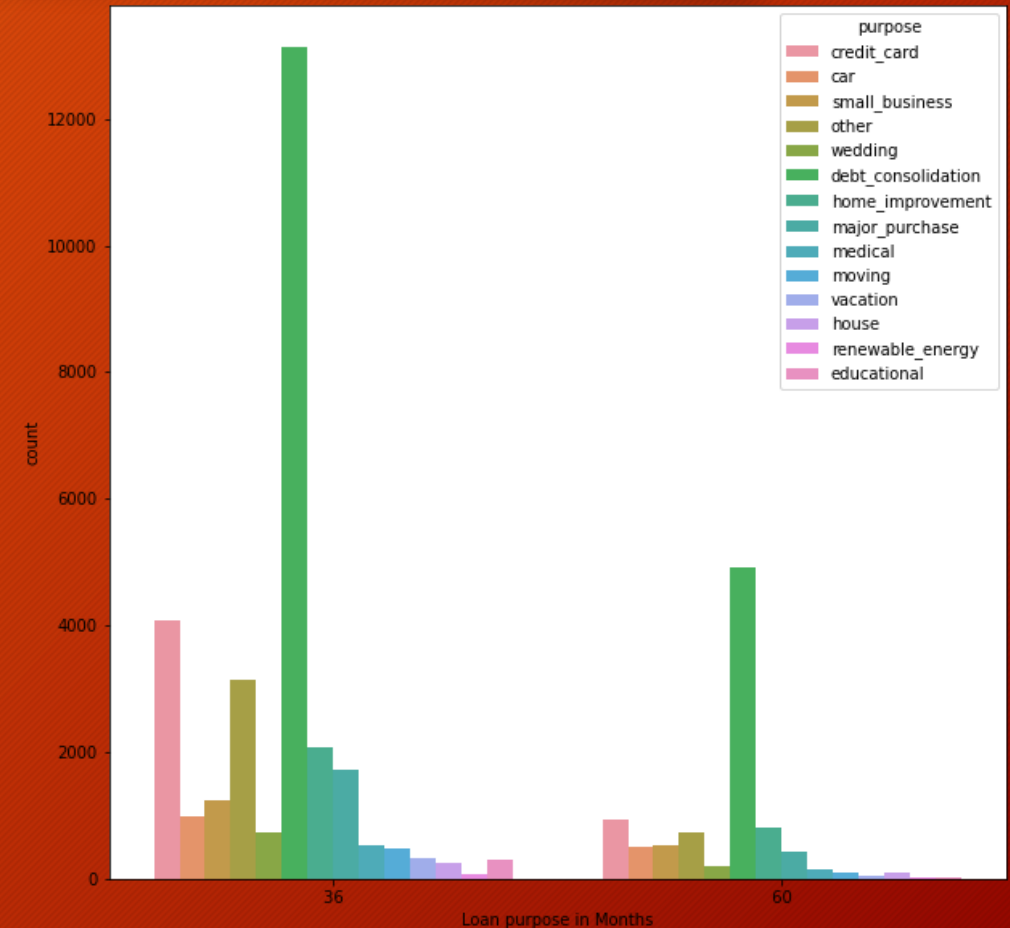
- Mostly CA state applicant have chance to defaulters

Loan Purpose analysis

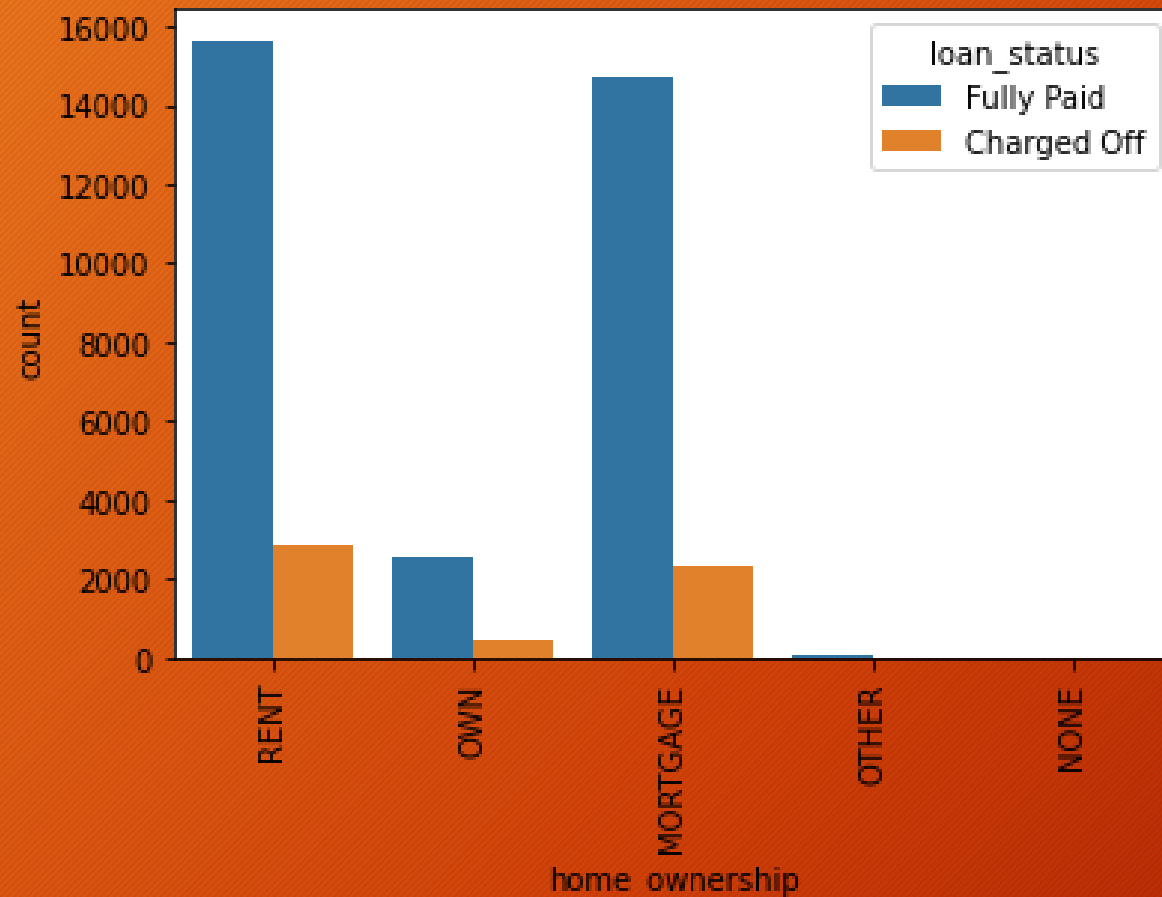


Observation

- Most of the applicant take a loan for debt consolidation
- Most of the loan granted for 36 month
- 36 month high chance to be defaulters



Loan home ownership analysis



Observation

- Loan applicant who have rented home and mortgage is all most same and that type of applicant high chance to be defaulters

Conclusion

- Low grade have high chance to be defaulters.
- Who applicant belong to CA state those have high chance to be defaulters.
- Majorly applicant applying loan for debt consolidation those people have high chance to be defaulters.
- Rented and mortgage home people high chance to defaulters

Thank you