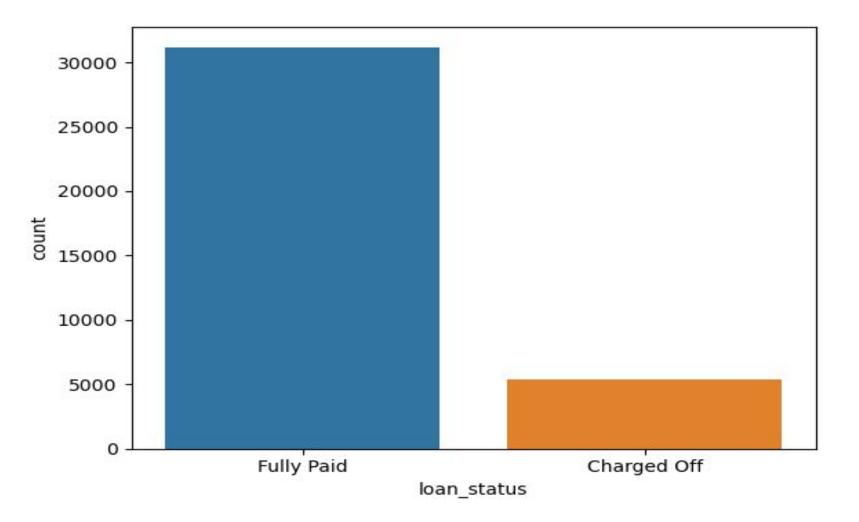
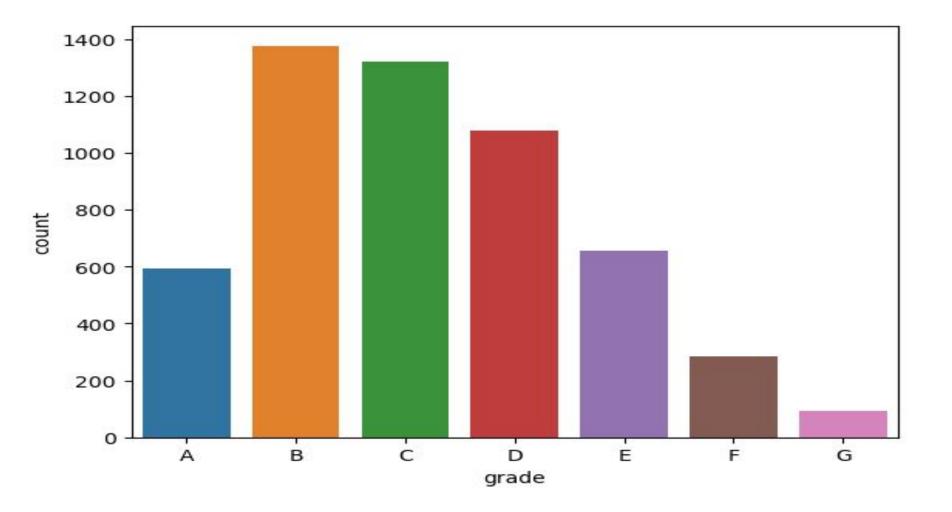
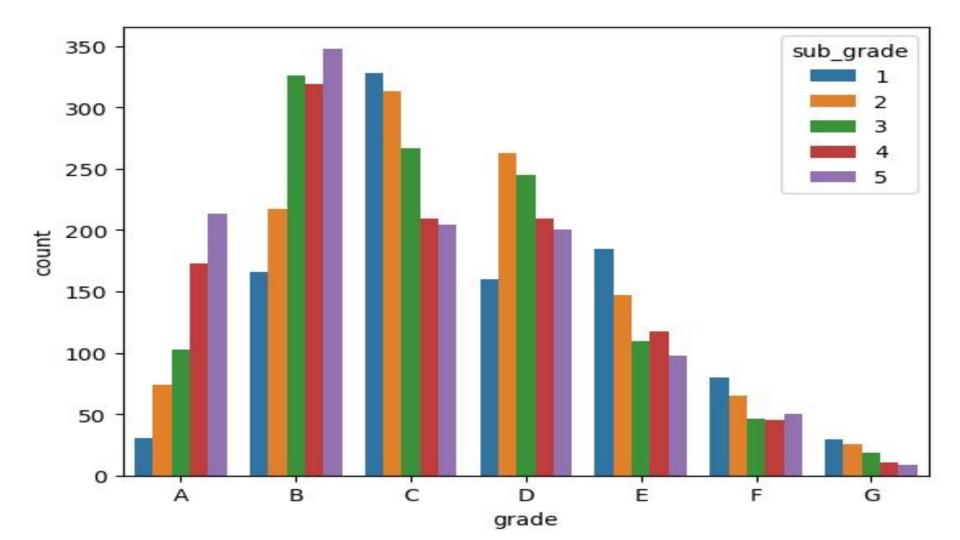
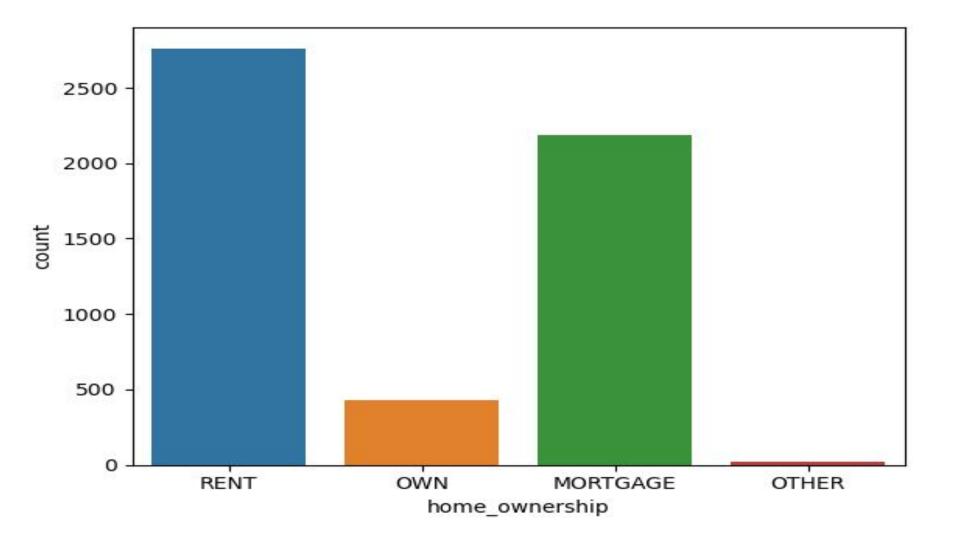
Lending club case study

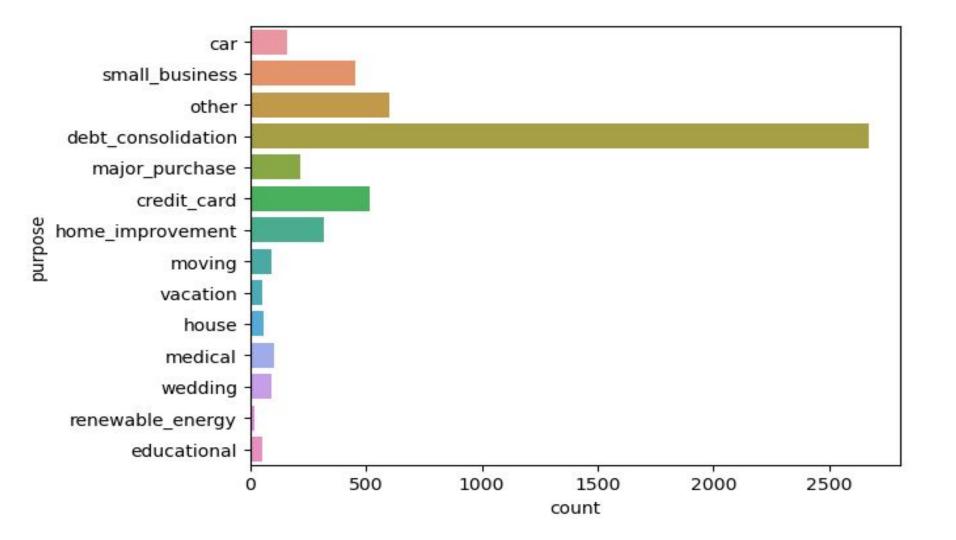
Univariate analysis

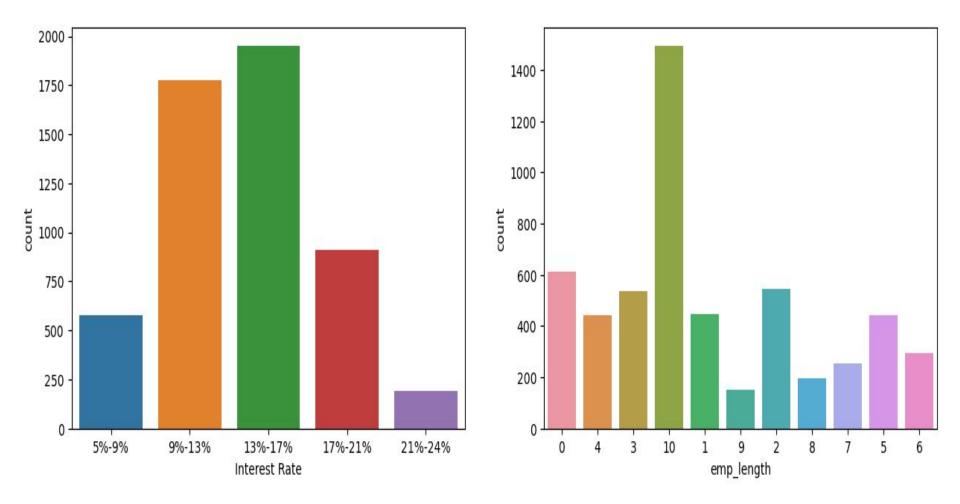


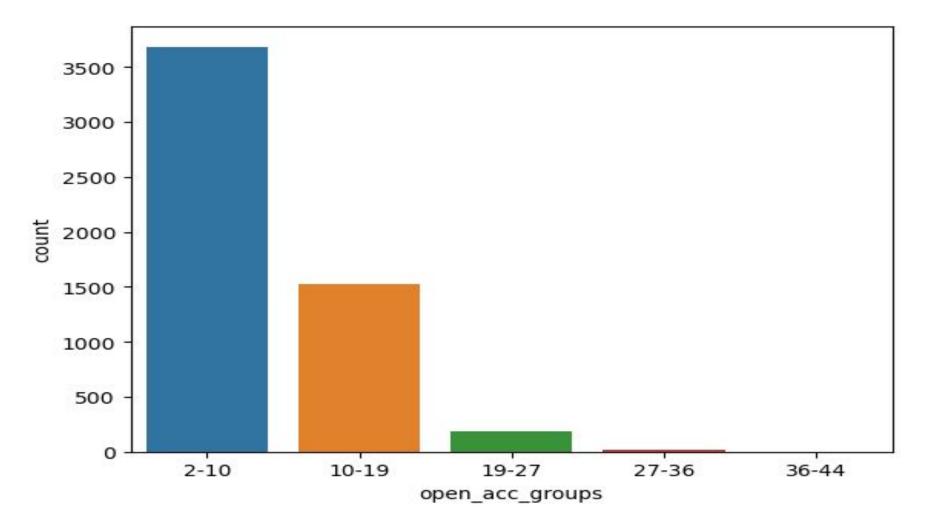


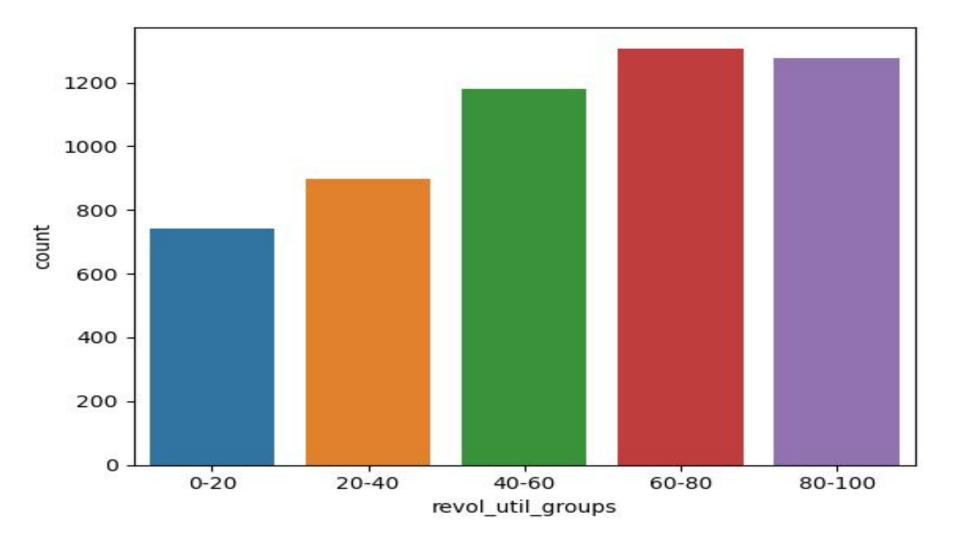


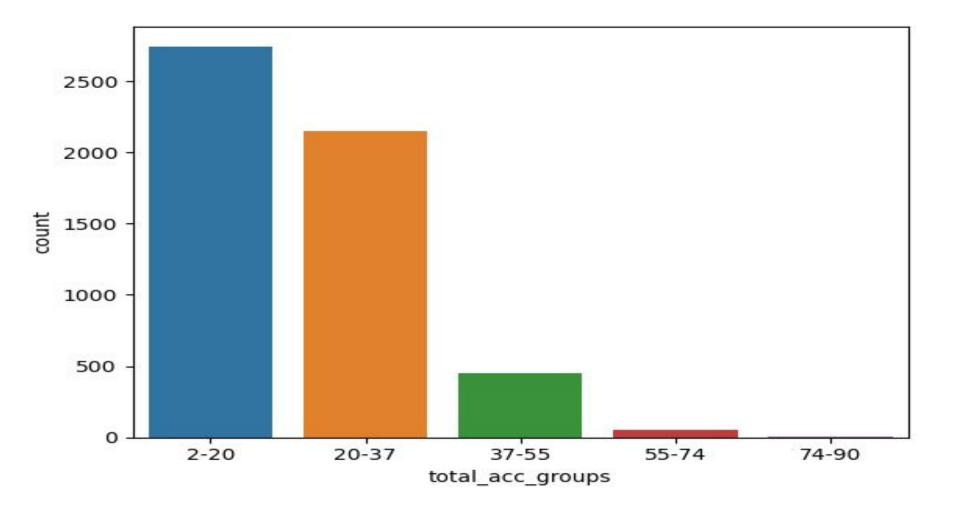


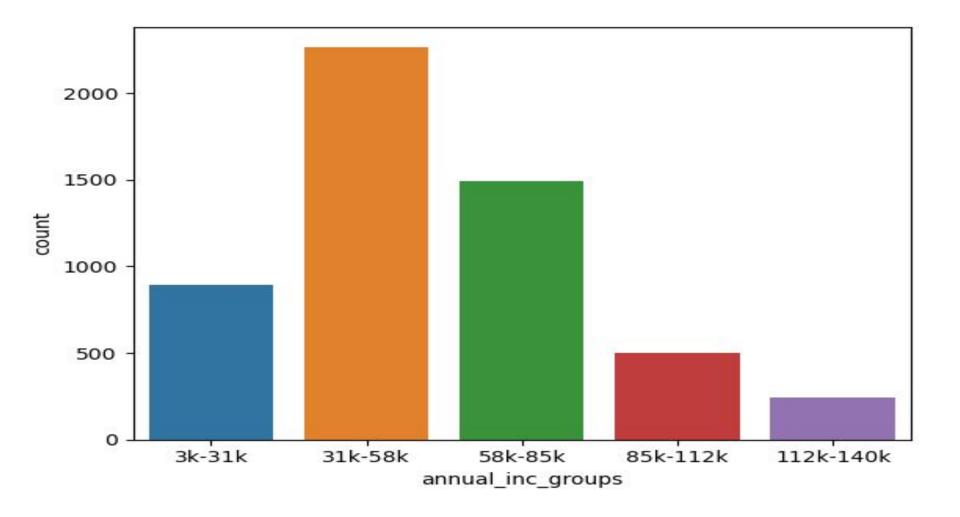


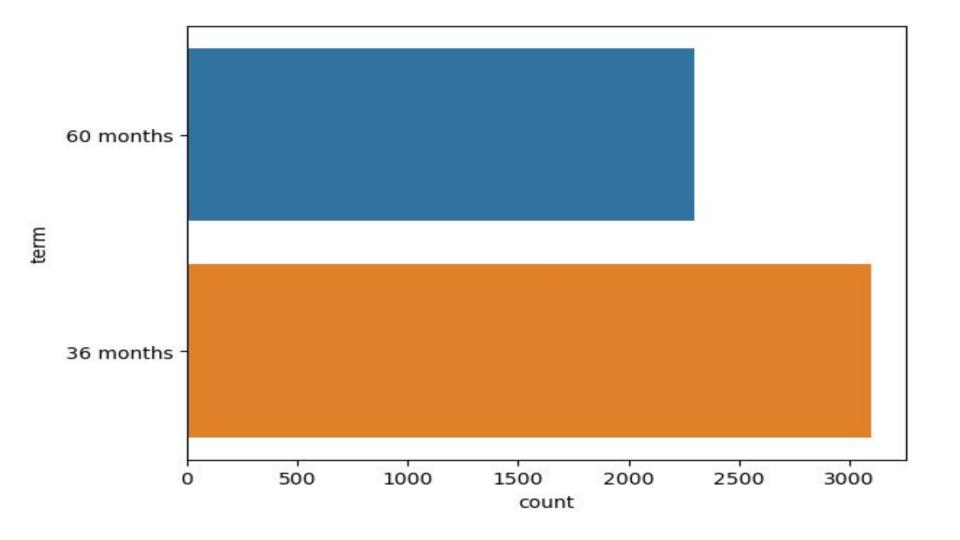


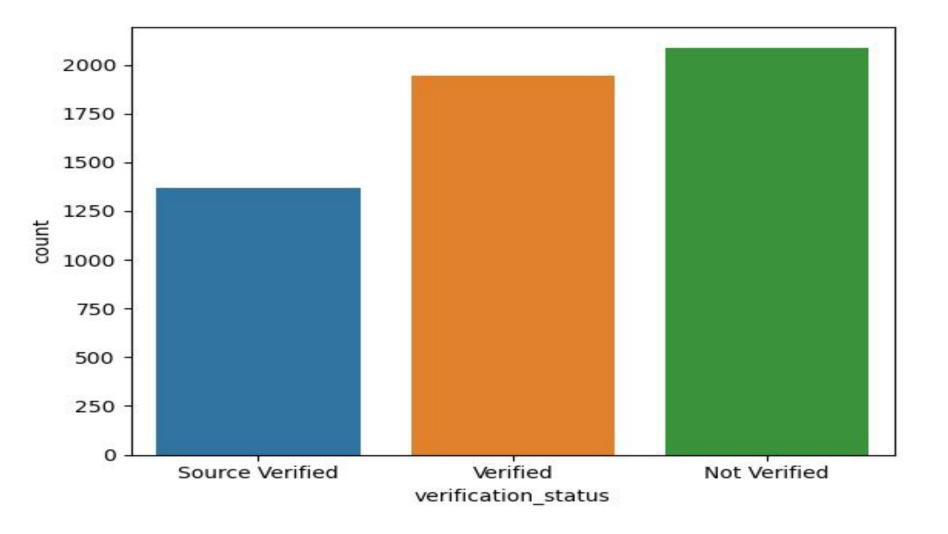


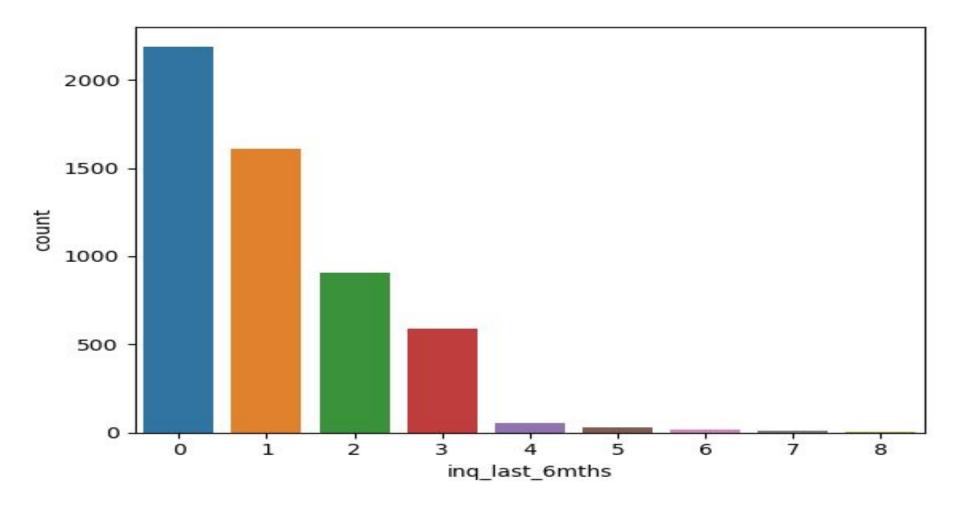


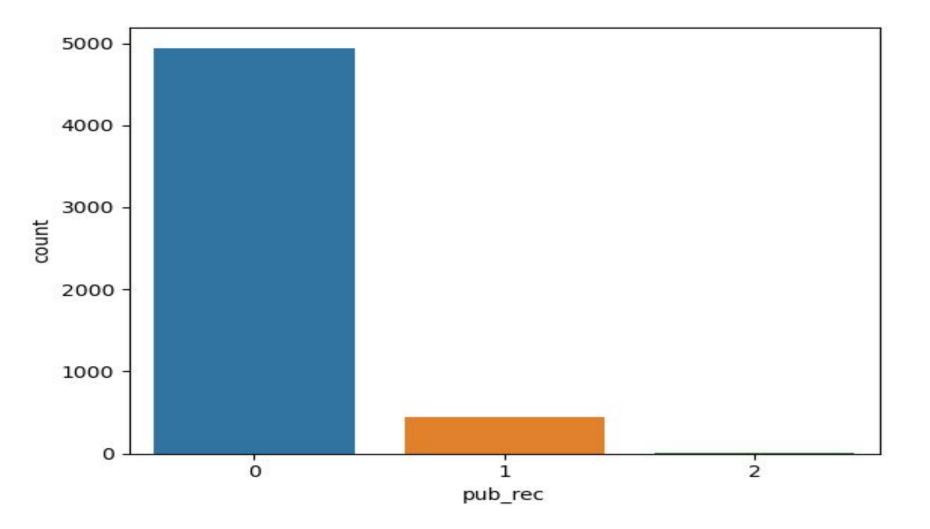


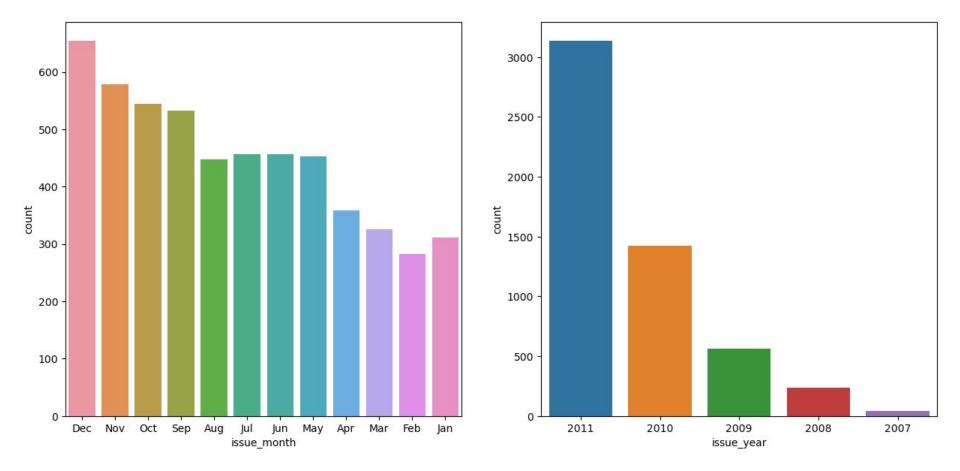


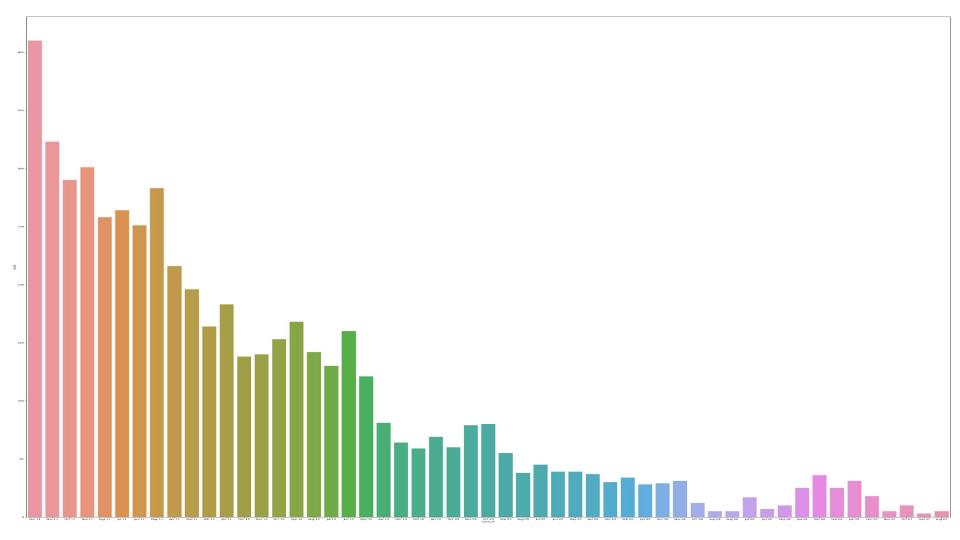


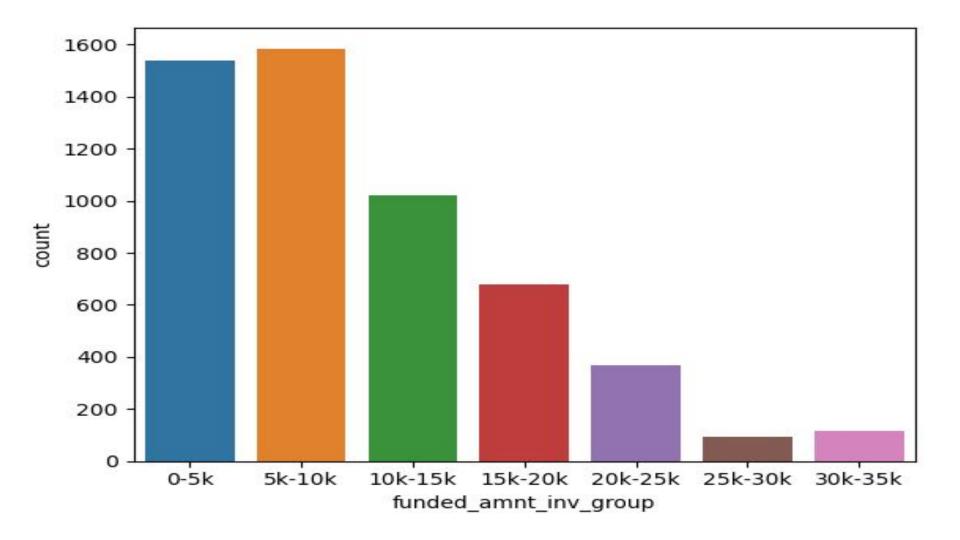


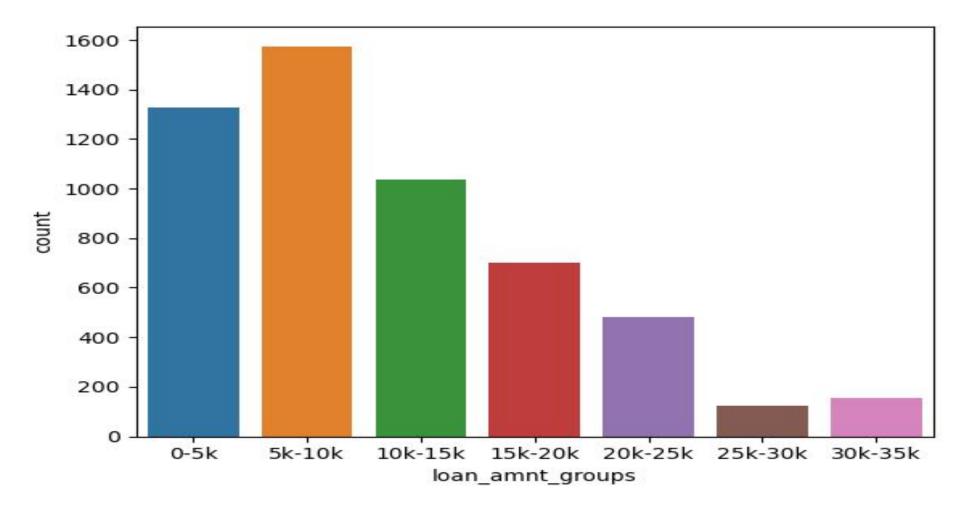


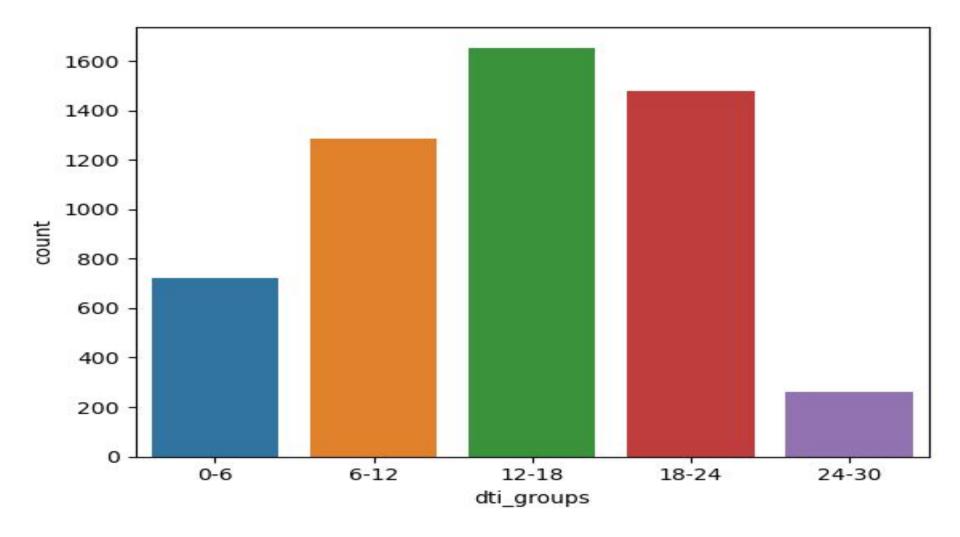


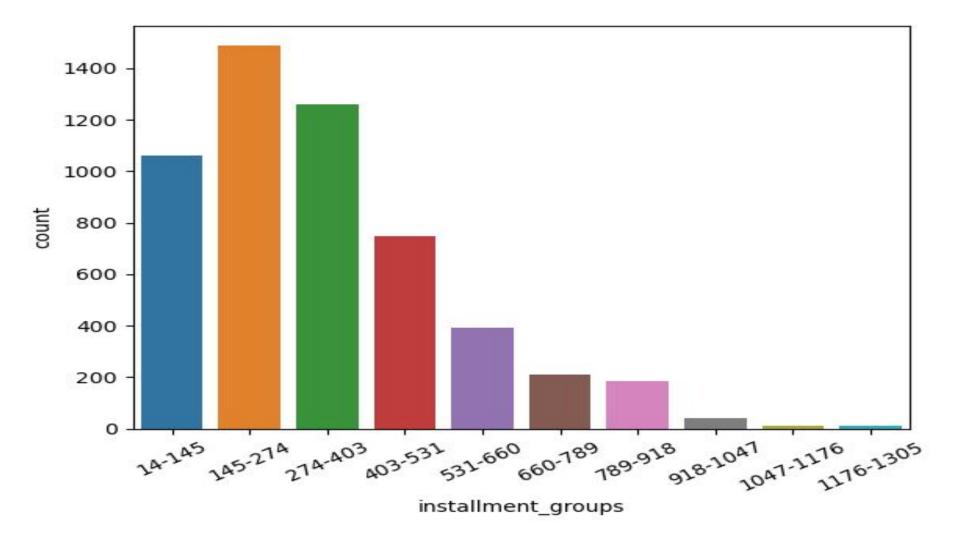




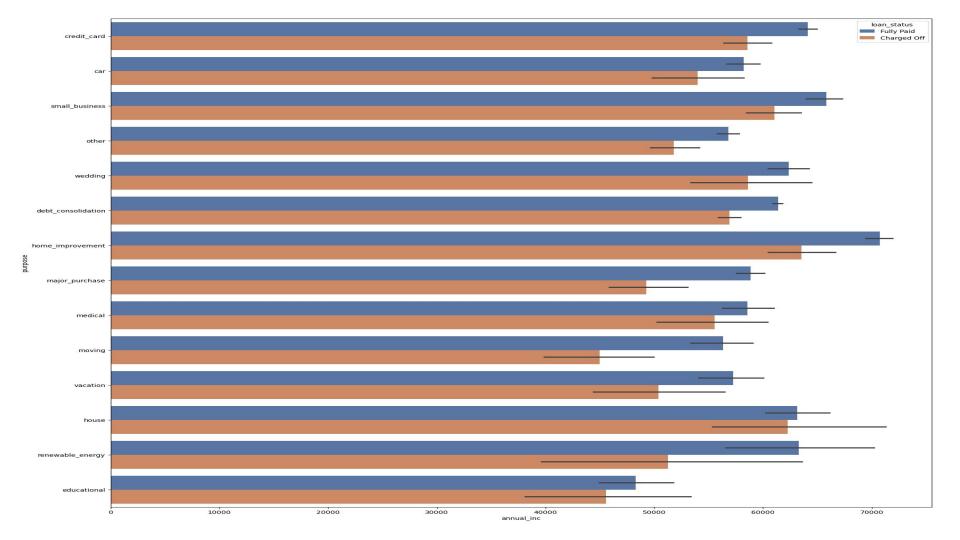


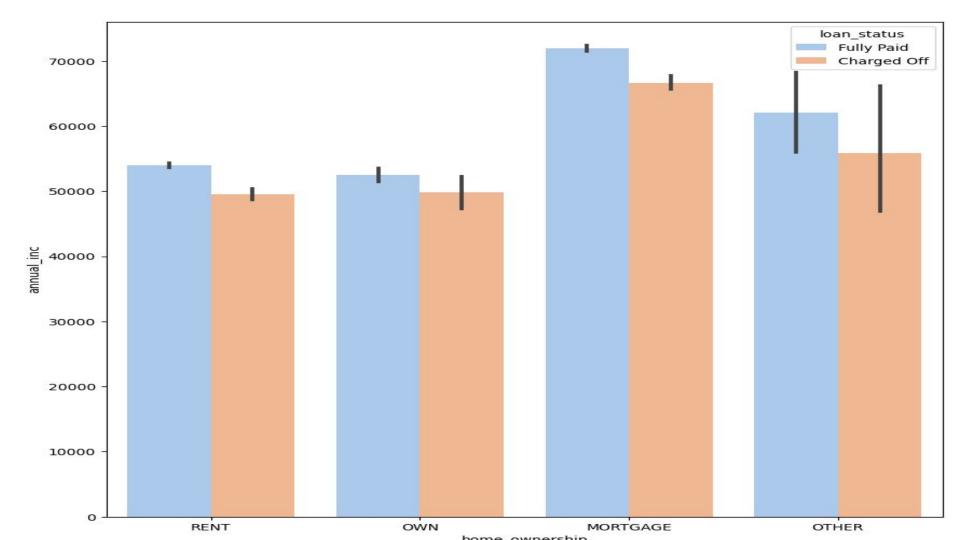


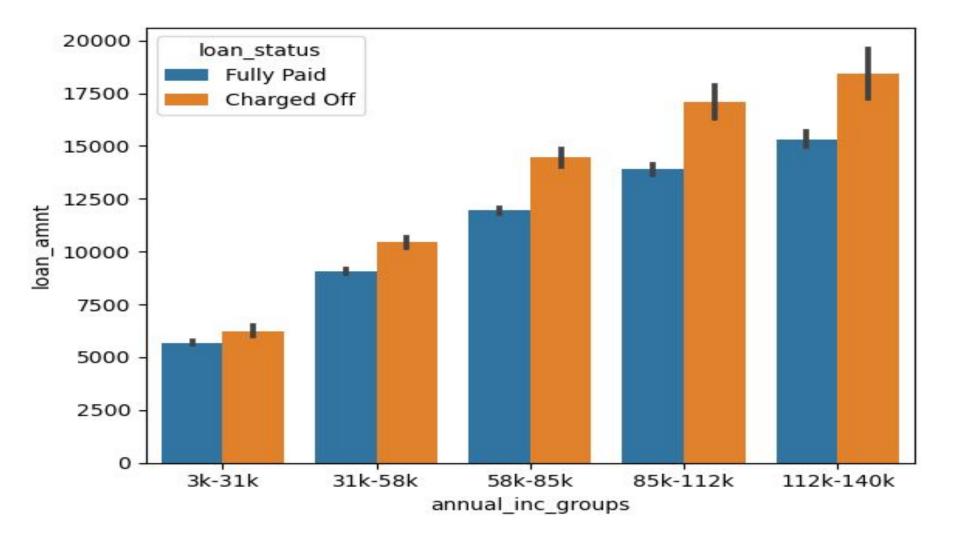


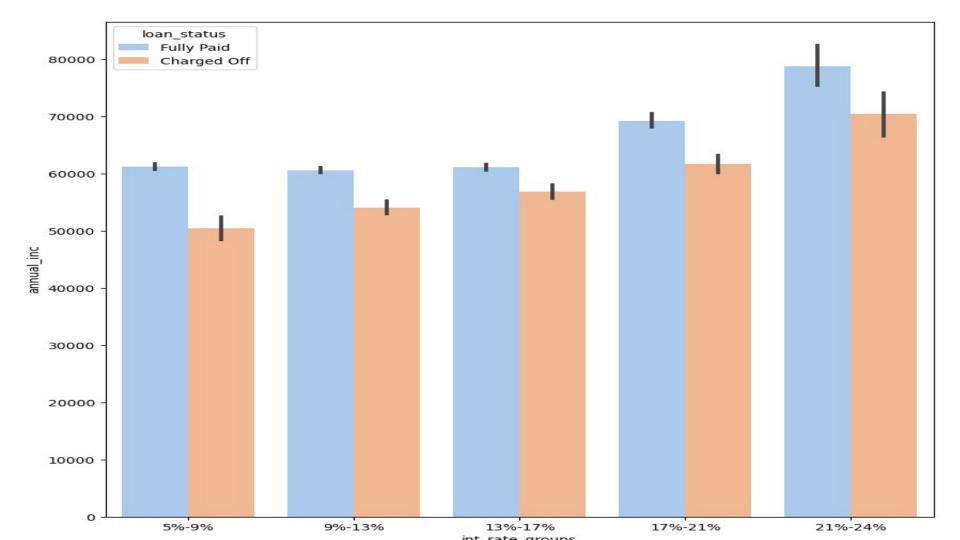


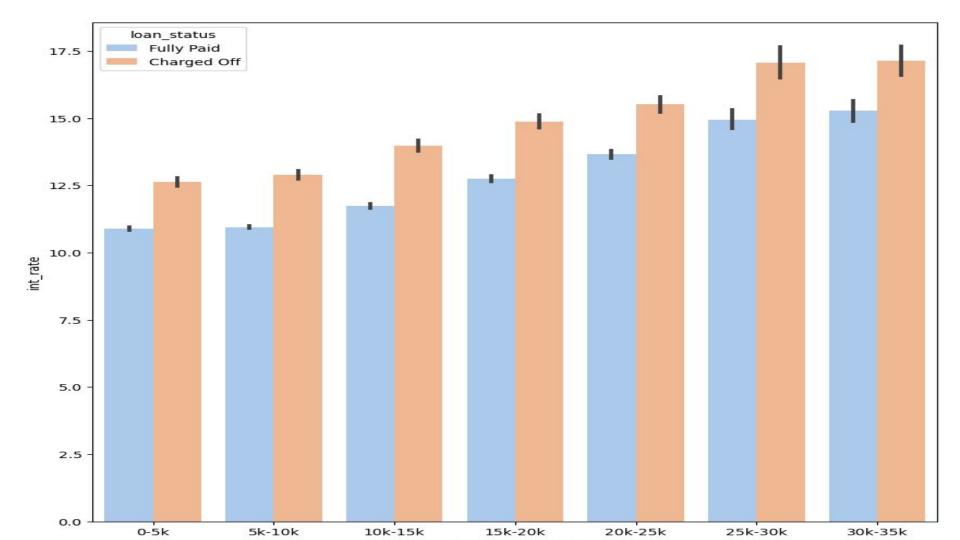
Bi/Multi Variate analysis further

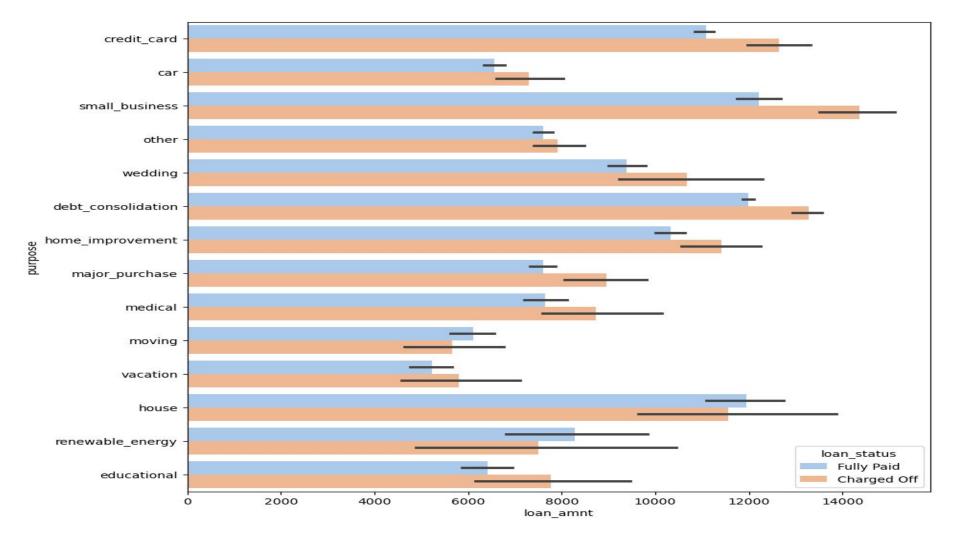


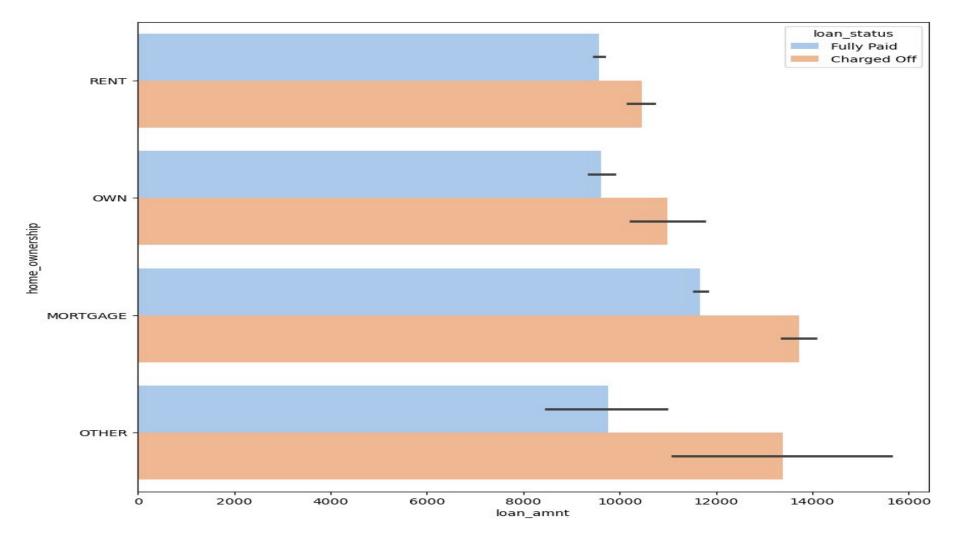


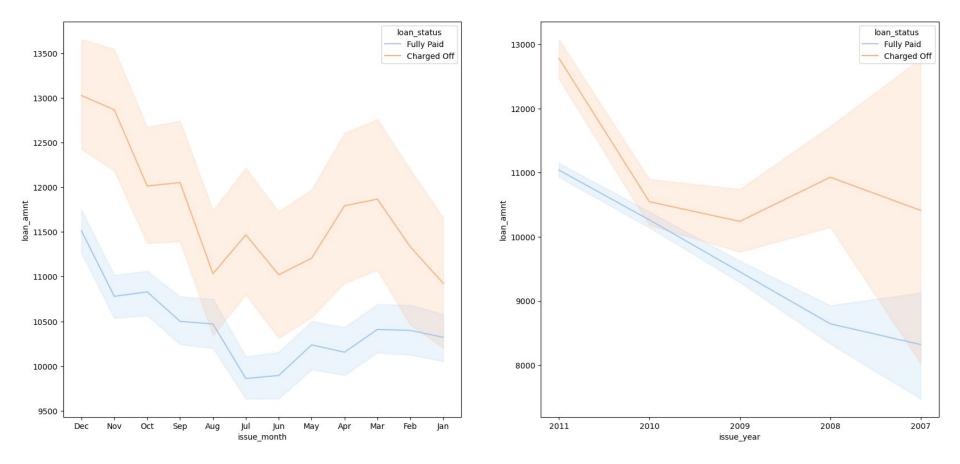


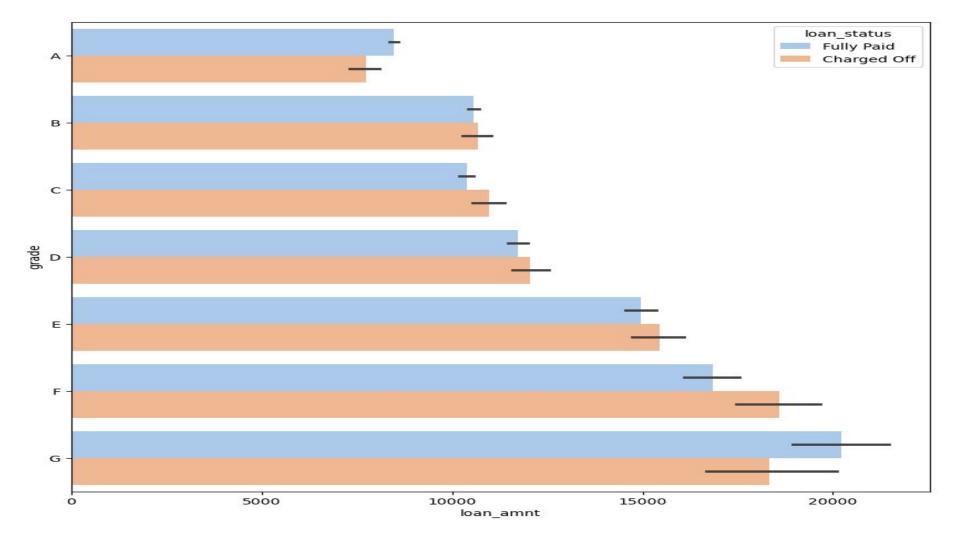


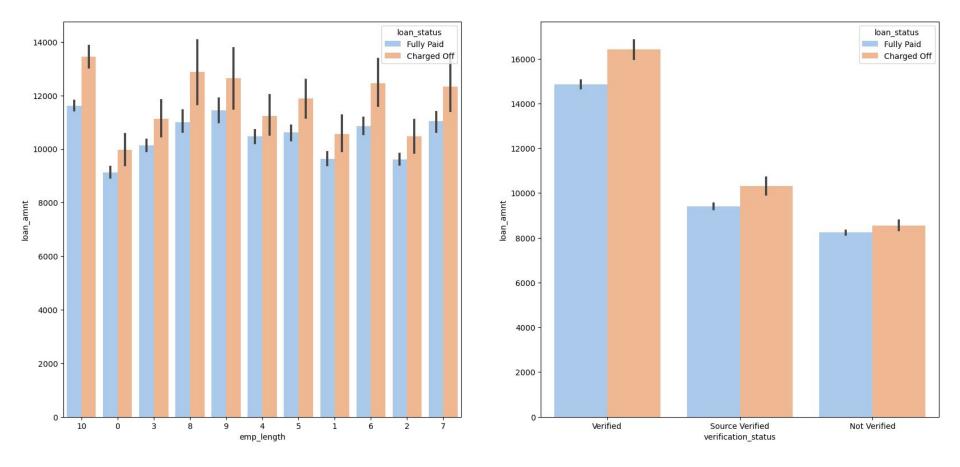


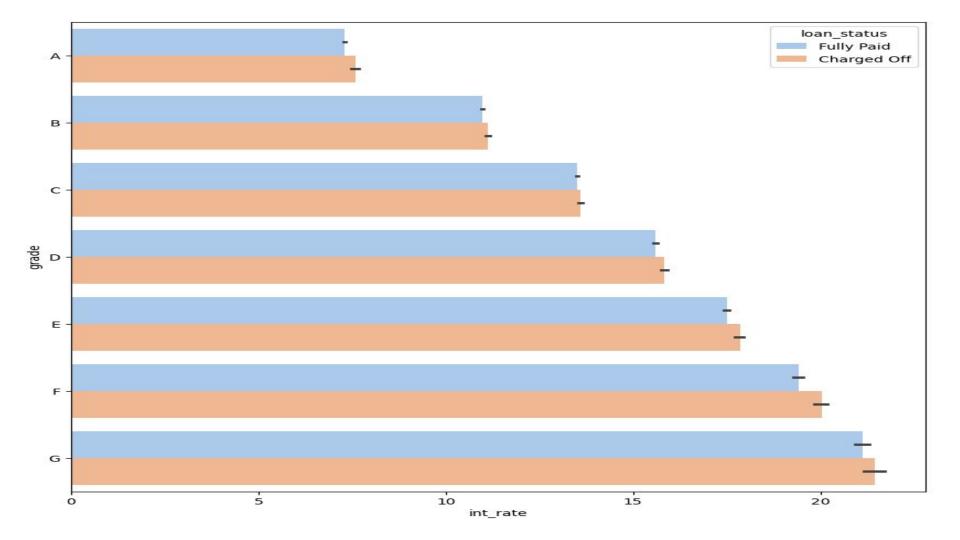


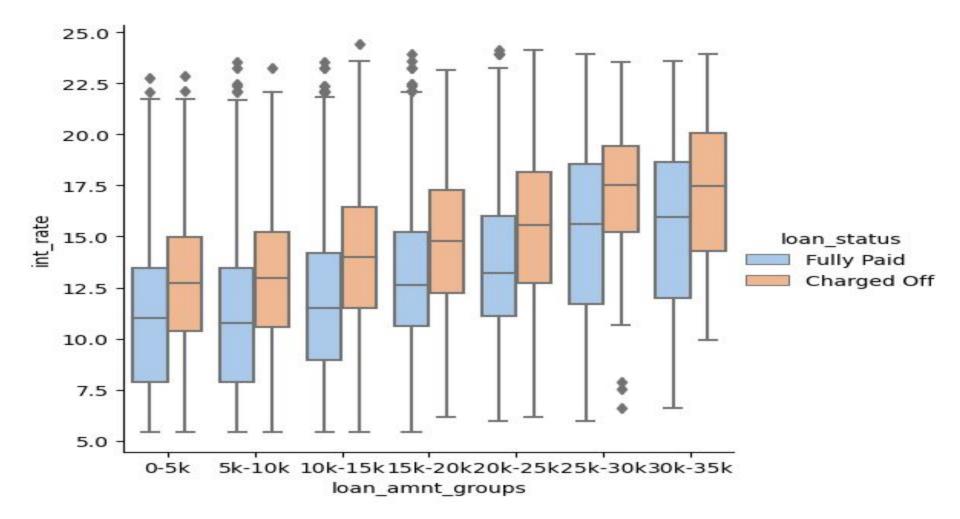


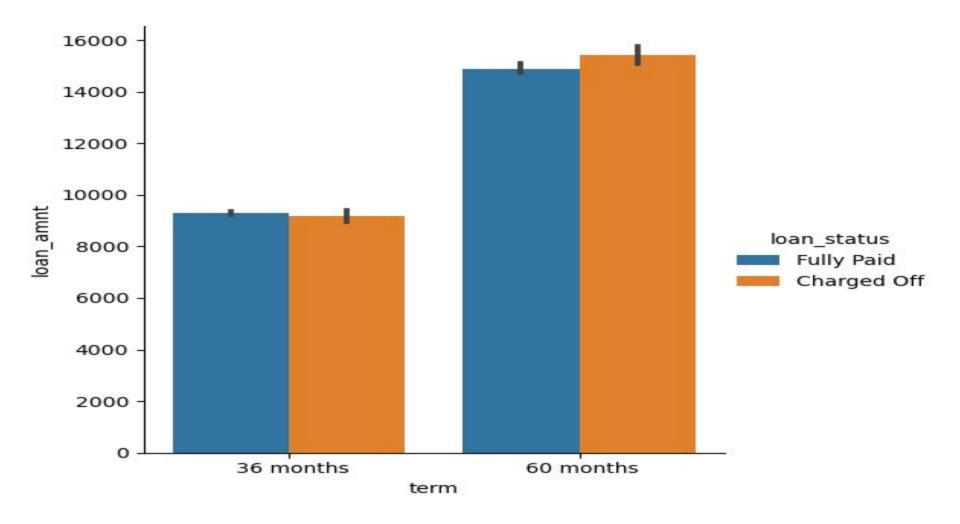












Conclusions

Univariate analysis with respect to the charged off loans. There is a more probability of defaulting when:

- Applicants having house ownership as 'RENT'
- Applicants who receive interest at the rate of 13-17%
- Applicants who have an income of range 31201 58402
- Applicants with employement length of 10
- When funded amount by investor is between 5000-10000
- Loan amount is between 5429 10357
- Dti is between 12-18
- When monthly installments are between 145-274
- Term of 36 months
- When the loan status is Not verified
- When the no of enquiries in last 6 months is 0
- When the number of derogatory public records is 0
- When the purpose is 'debt_consolidation'
- Grade is 'B'
- And a total grade of 'B5' level.

Bivariate/multivariate analysis with respect to the charged off loans. There is a more probability of defaulting when :

- Applicants taking loan for 'home improvement' and have income of 60k -70k
- Applicants whose home ownership is 'MORTGAGE and have income of 60-70k
- Applicants who receive interest at the rate of 21-24% and have an income of 70k-80k
- Applicants who have taken a loan in the range 30k 35k and are charged interest rate of 15-17.5 %
- Applicants who have taken a loan for small business and the loan amount is greater than 14k
- Applicants whose home ownership is 'MORTGAGE and have loan of 14-16k
- When grade is F and loan amount is between 15k-20k
- When employment length is 10yrs and loan amount is 12k-14k
- When the loan is verified and loan amount is above 16k
- For grade G and interest rate above 20%

Useful Information

- The interest rate for charged off loans is pretty high than that of fully paid loans in all the loan_amount groups. So this can be a pretty strong driving factor for loan defaulting.
- Employees with longer working history got the loan approved for a higher amount.
 Looking at 36 slide, the verification status data, verified loan applications tend to have higher loan amount. Which might indicate that the firms are first verifying the loans with higher values.