Loan Default Risk Analysis

Problem Statement

- Minimizing credit loss by identifying risky borrowers.
- Use data to identify the factors of loan defaults.

Dataset Overview

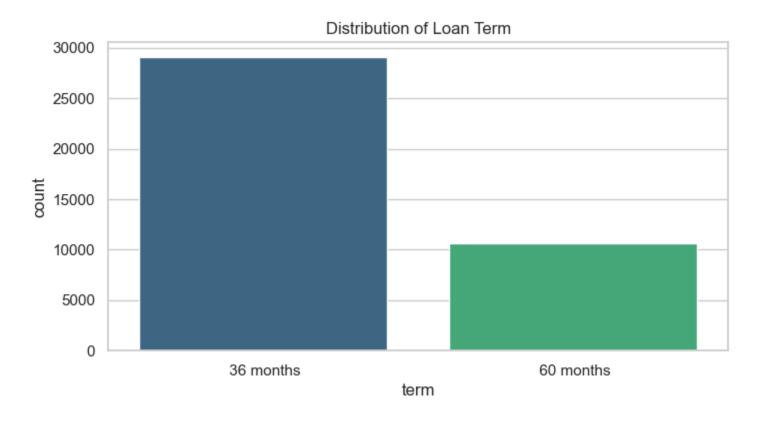
- Description of the dataset
- Data involve Loan amount, interest rate, term, grade, loan status, etc.
- Size of Data: 39717 Row x 111 column

Just cleaned the data

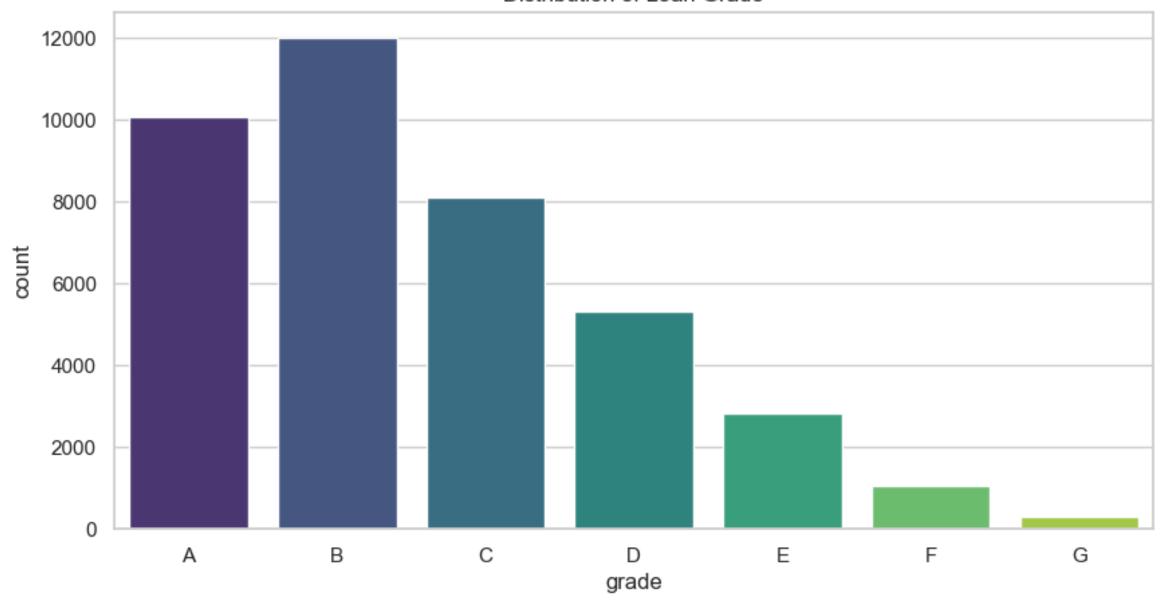
- First we filter the data and removed the missing value data from the data.
- Then after filtring the data it become 39717 row and 54 Column

Univariate Analysis

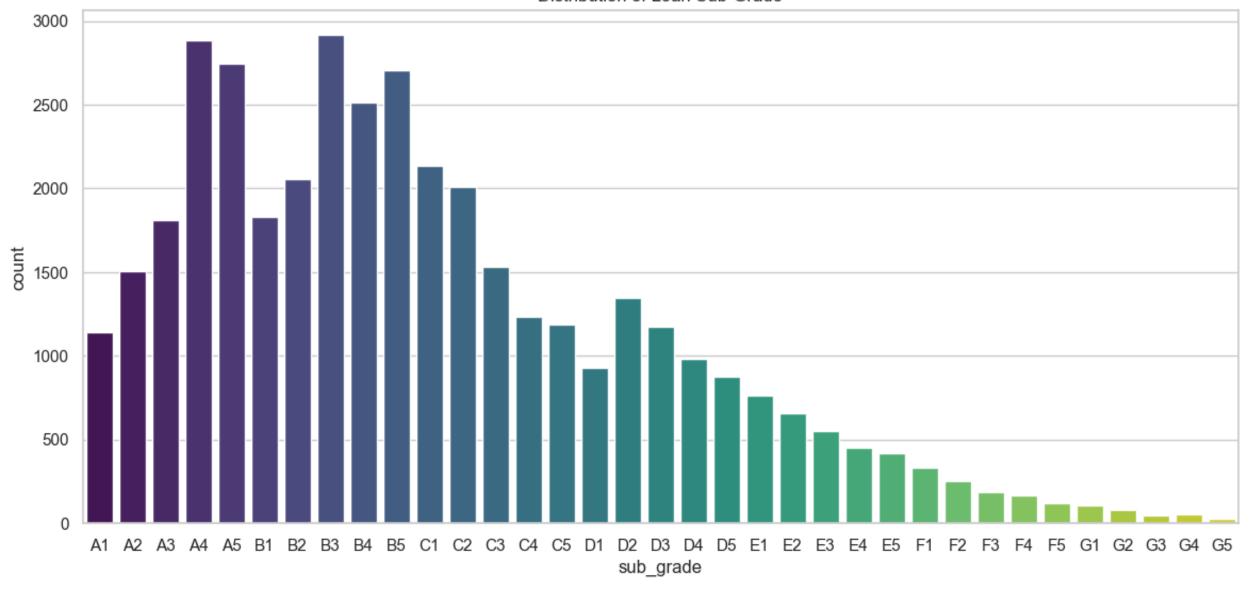
- Lots of loans are between\$10,000 and 15,000.
- Lots of borrowers have annual incomes between 40,000 and 80,000.



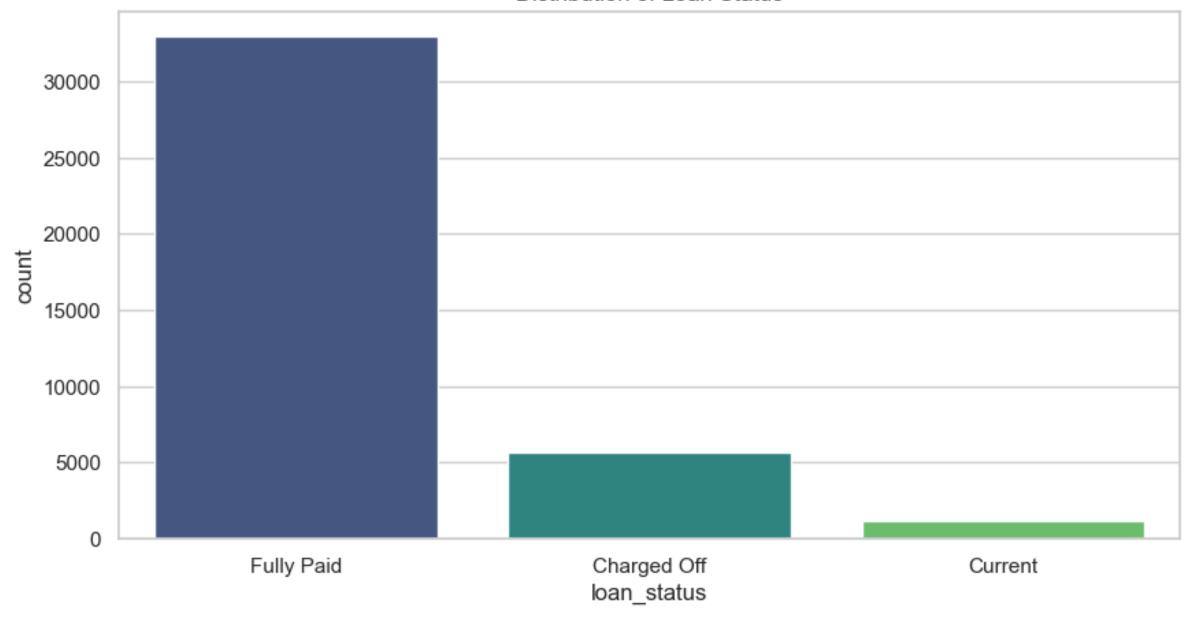
Distribution of Loan Grade



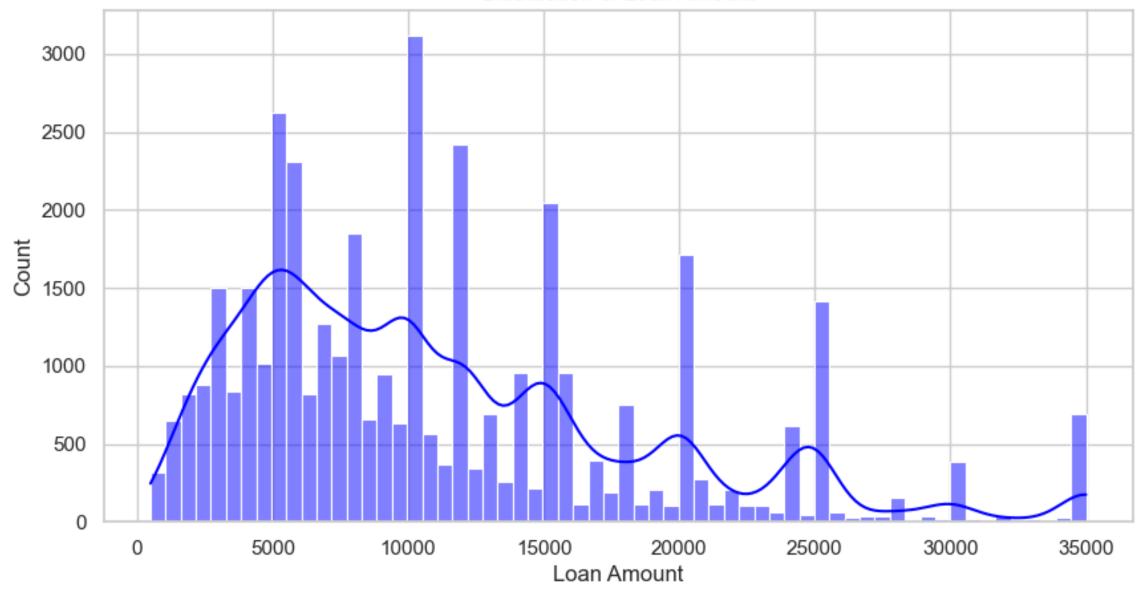
Distribution of Loan Sub-Grade



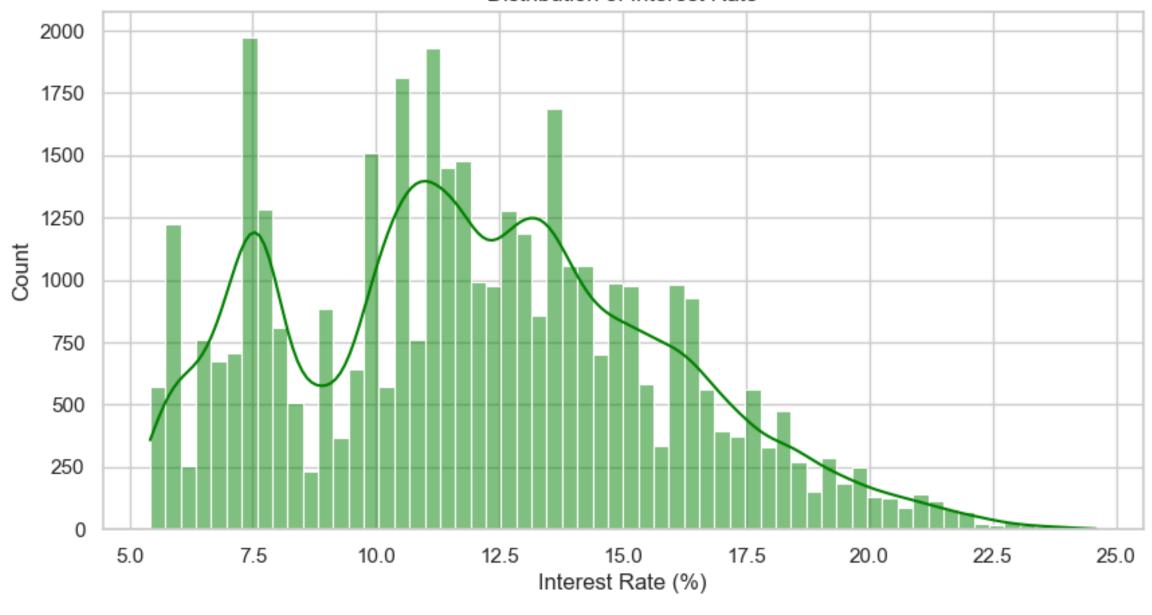
Distribution of Loan Status



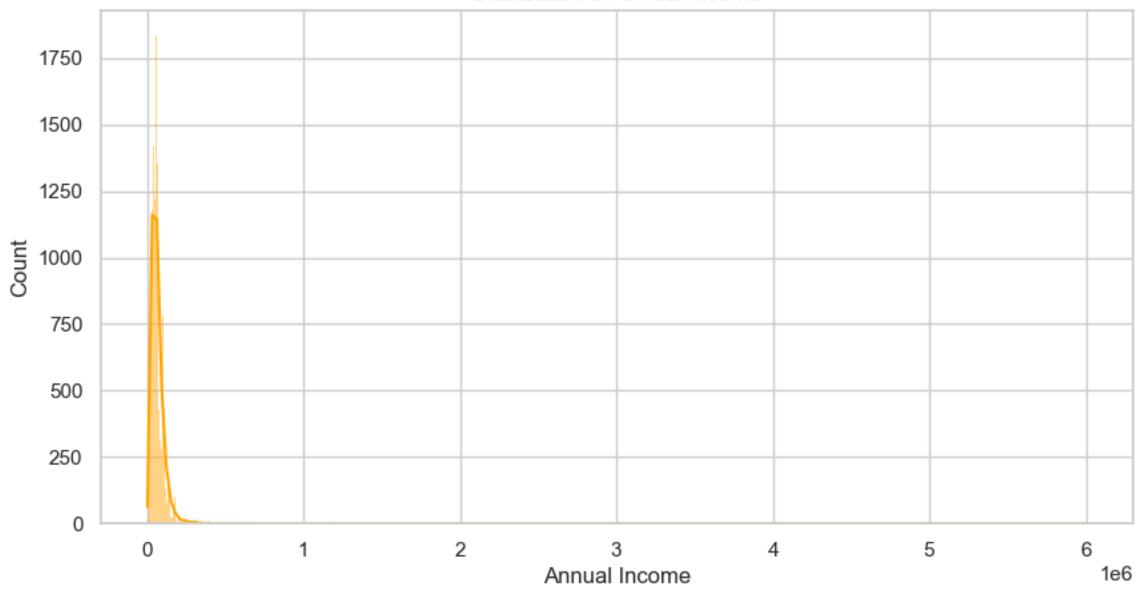
Distribution of Loan Amount



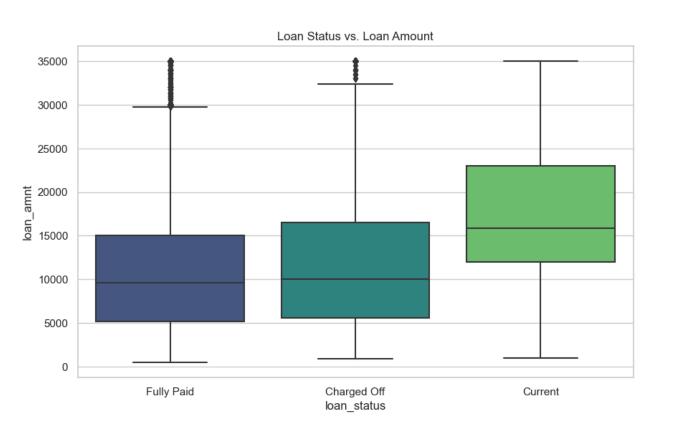
Distribution of Interest Rate

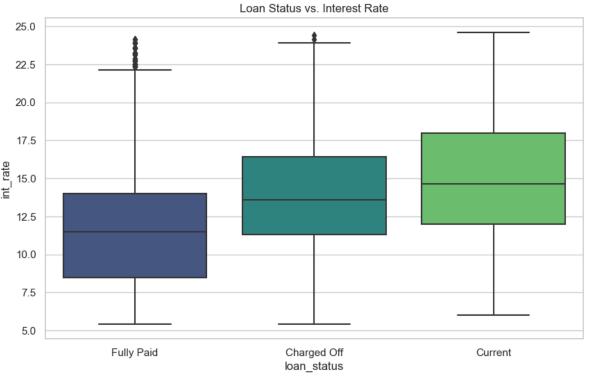


Distribution of Annual Income

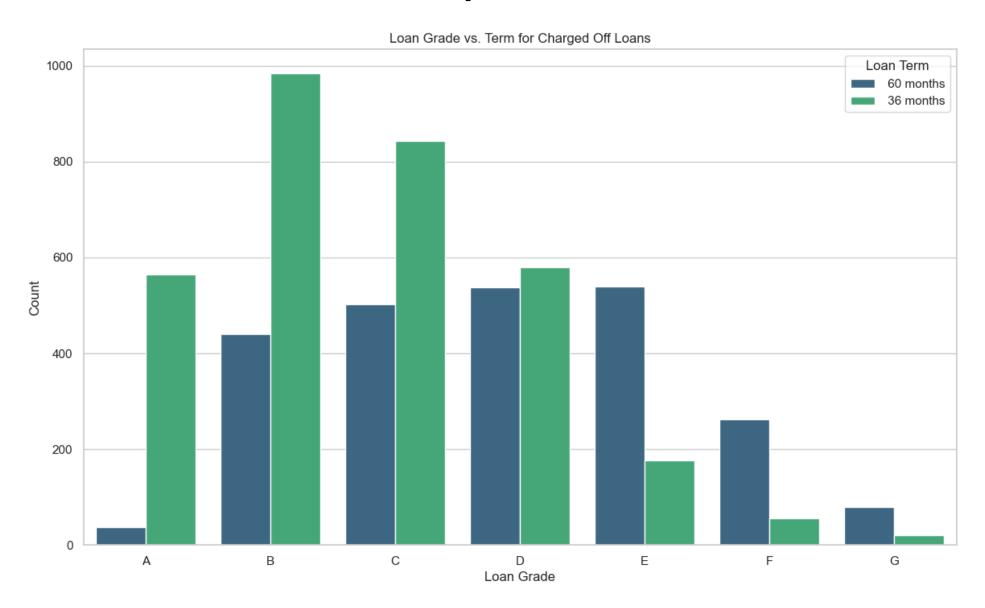


Bivariate Analysis





Multivariate analysis



Conclusions

- 1. Be careful when approving loans for high-risk borrowers.
- 2. Take higher interest rates for borrowers with lower credit scores manage risk.
- 3. Give small loans to borrowers who are at higher risk.