
Credit EDA Assignment Case Study Report

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Overview

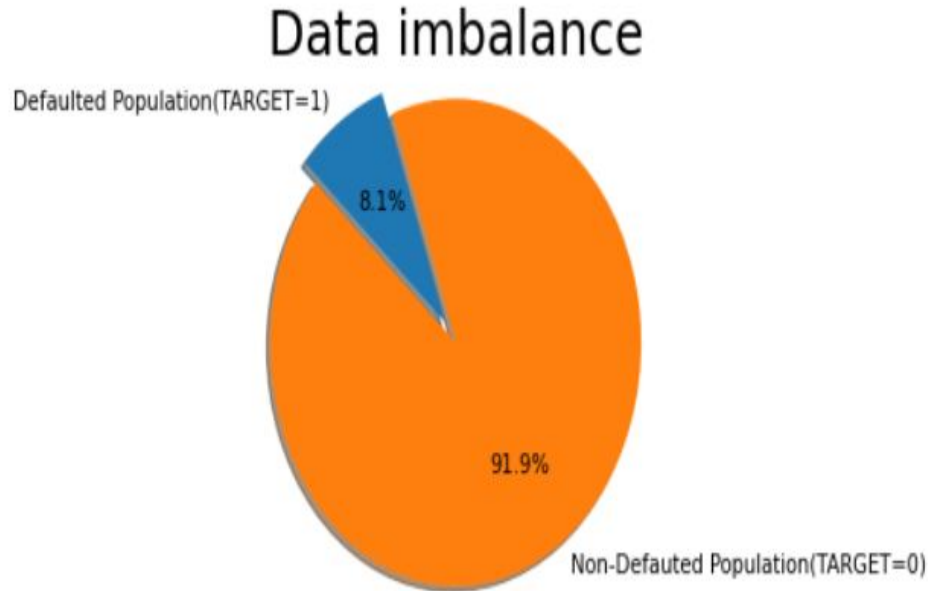
Banks/Companies receive thousands of applications every month for new loans. It becomes a tedious task to manage all of them.

- Credit risk analysis will help the company to make decision for loan approval based on the applicant profile.
 - This helps in controlling the loss and profits of the business to the company and avoid financial loss.
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Steps Involved

- Data understanding and sourcing.
 - Check for data quality issue and binding.
 - Check for data imbalance and univariate, segmented univariate & bivariate analysis, correlation.
 - Merging of application data with previous application data.
 - Recommendation and risk
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Data Imbalance for Target Variable

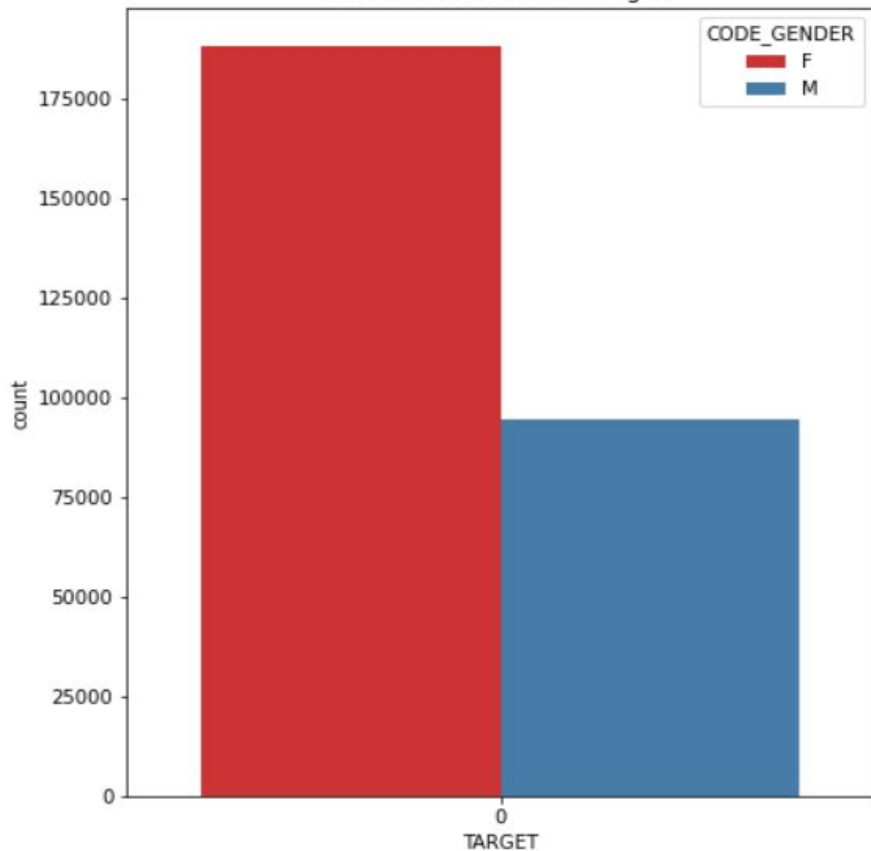


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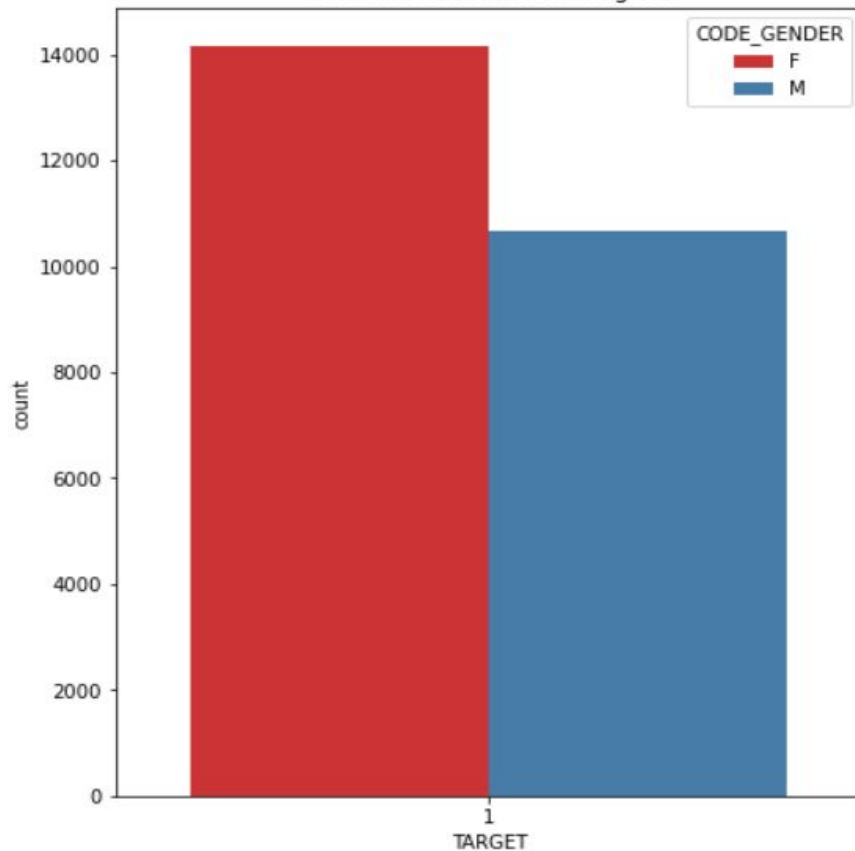
- There are around 8.1% of applicants who are defaulted and 91.9% applicants who are non-defaulted.
 - The ratio to defaulted and non-defaulted applicants is 1:11.3
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Gender Distribution of Applicants

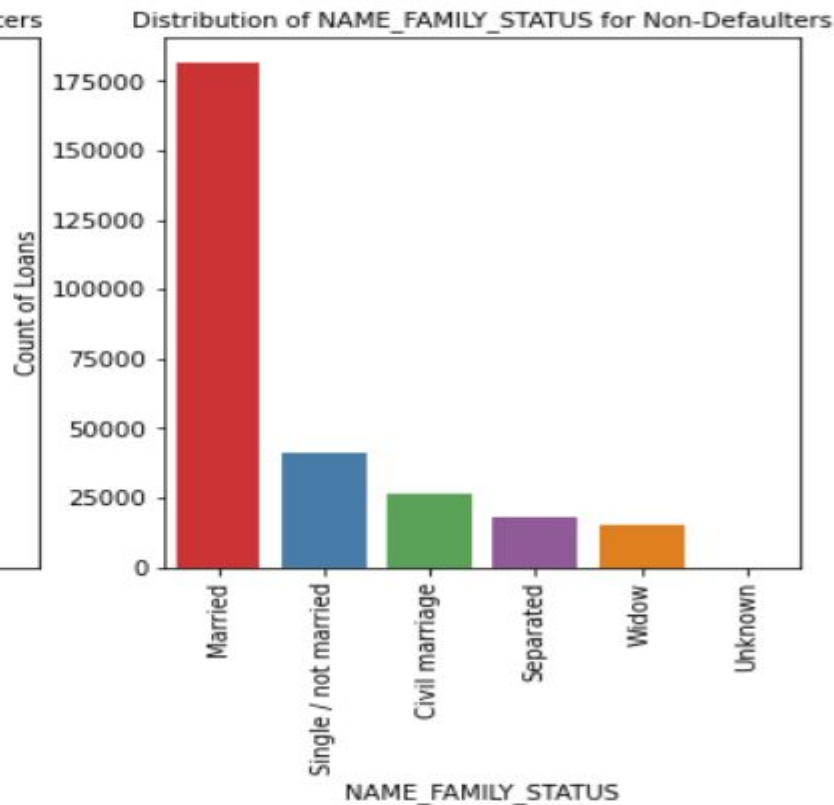
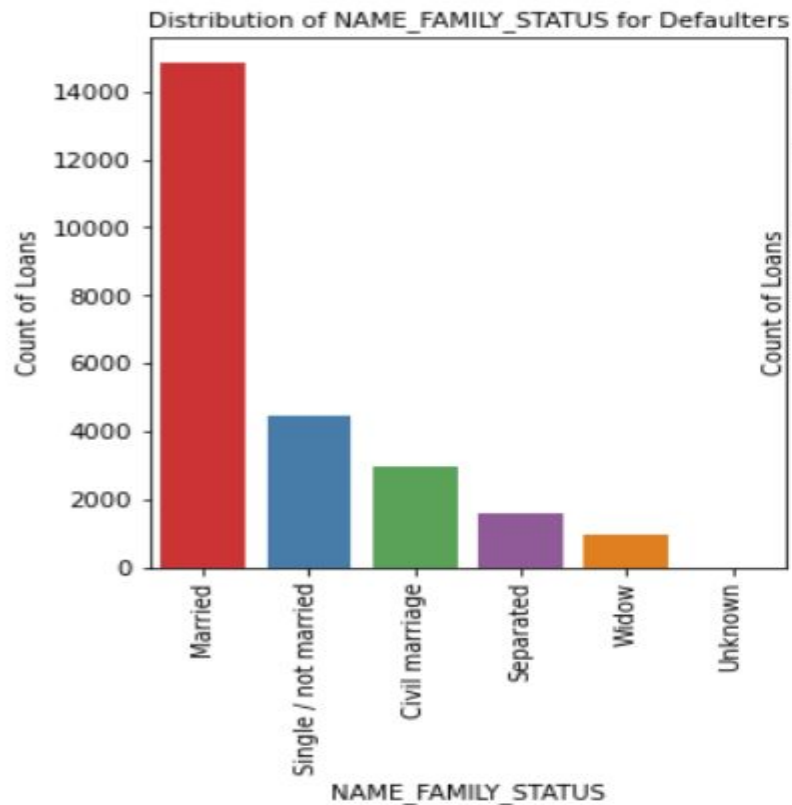
Gender Distribution in Target0



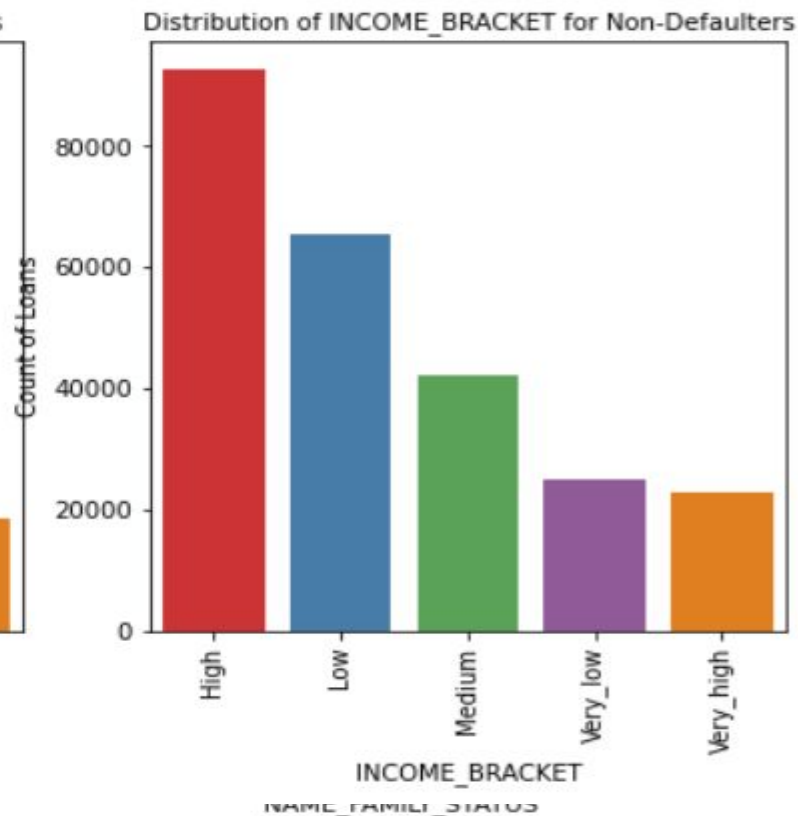
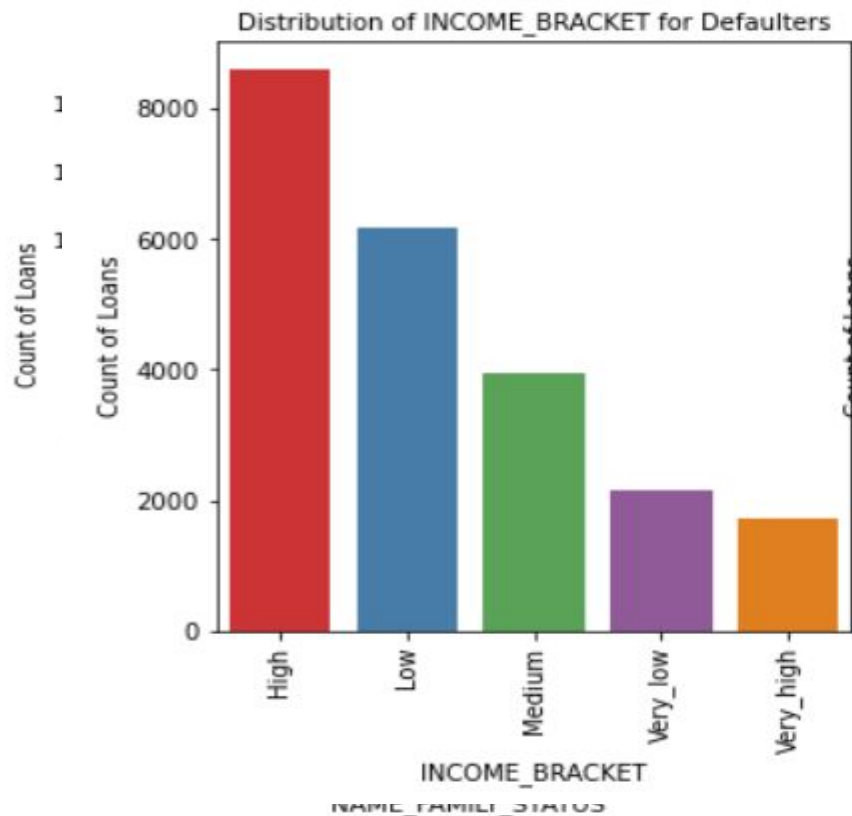
Gender Distribution in Target1



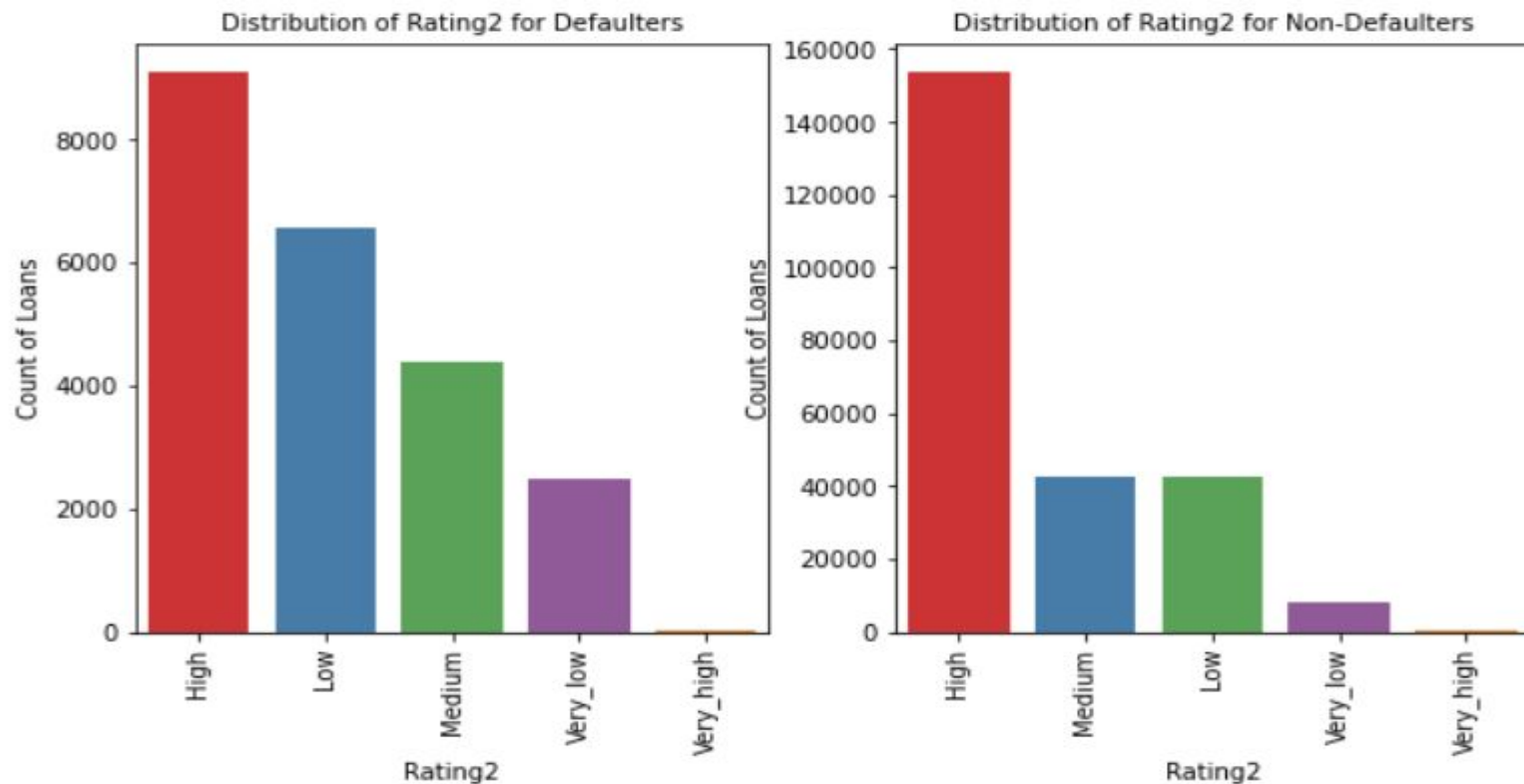
Distribution of Applicant Status



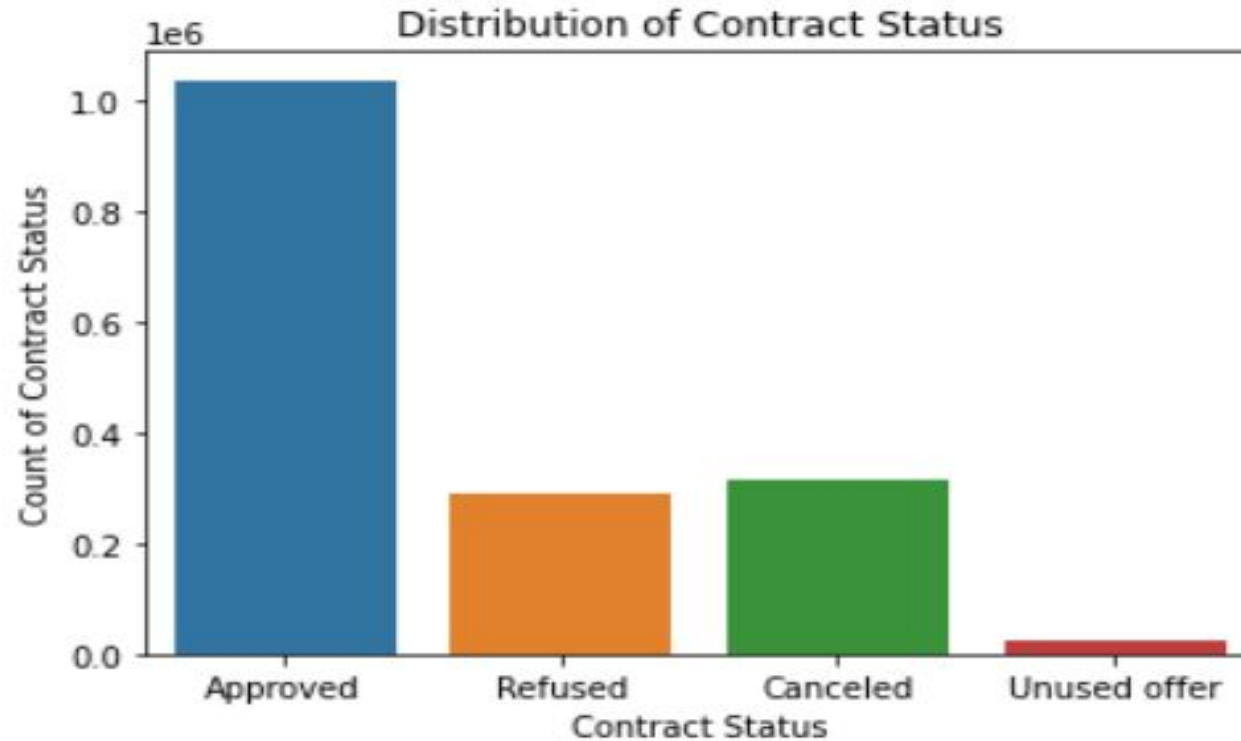
Distribution of Income Bracket



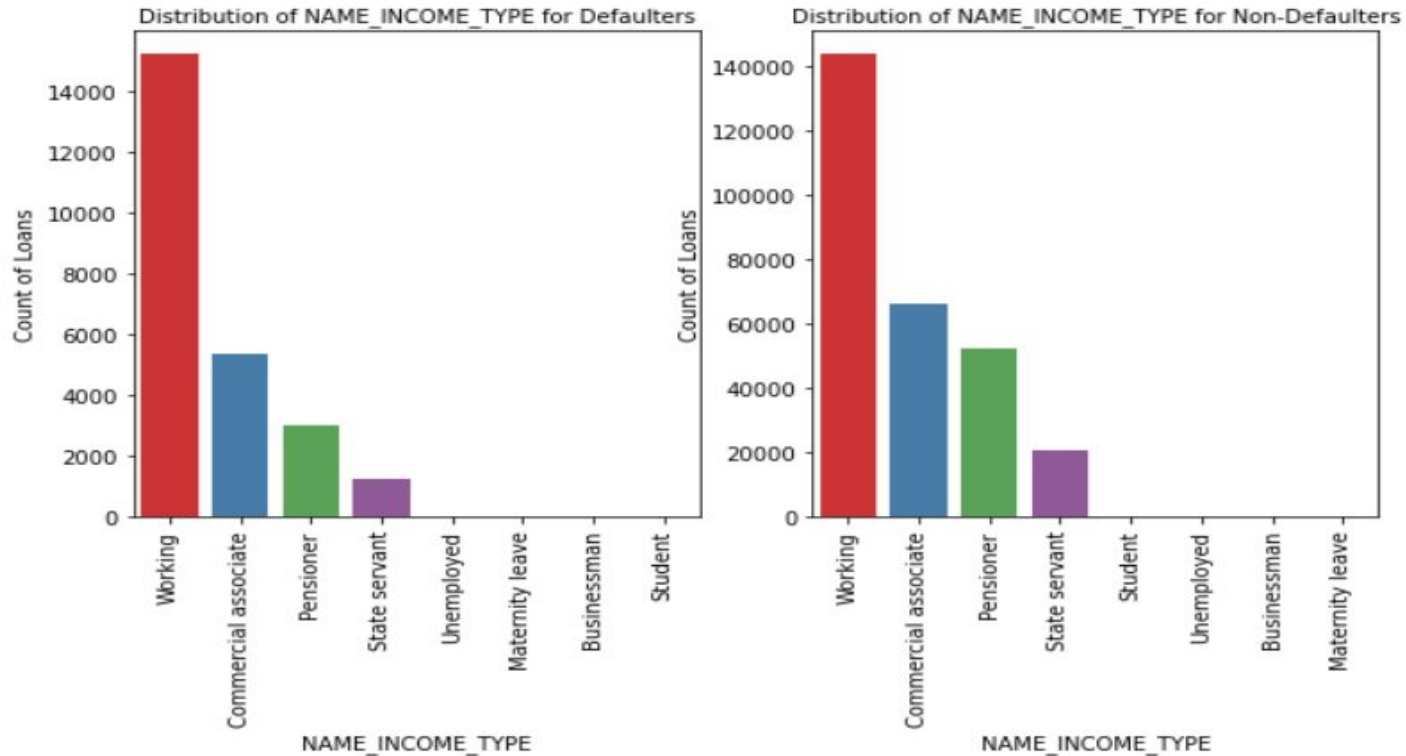
Distribution of Ratings for Applicants



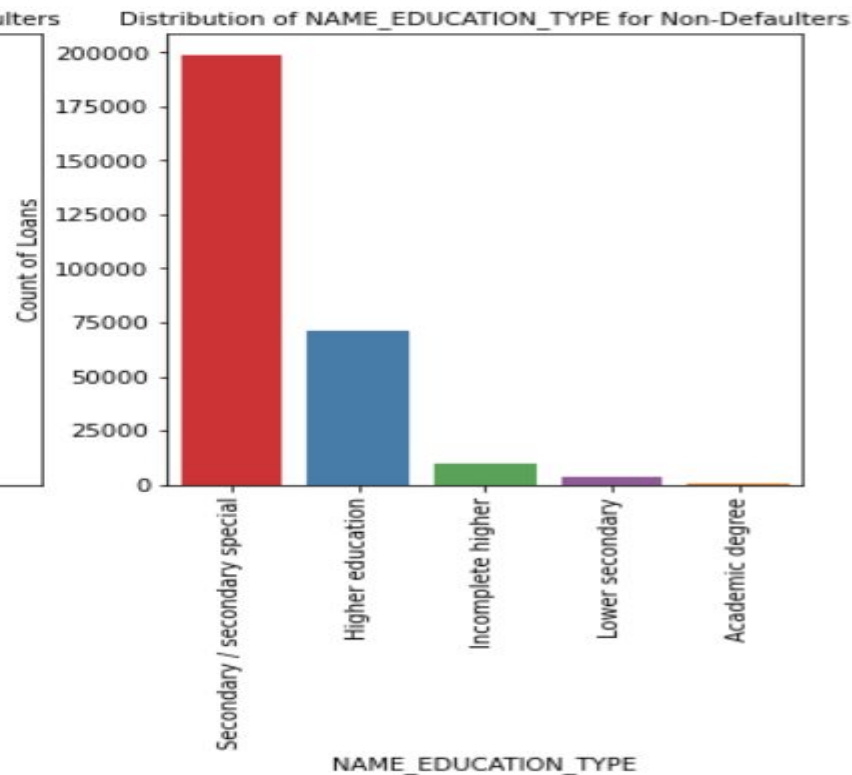
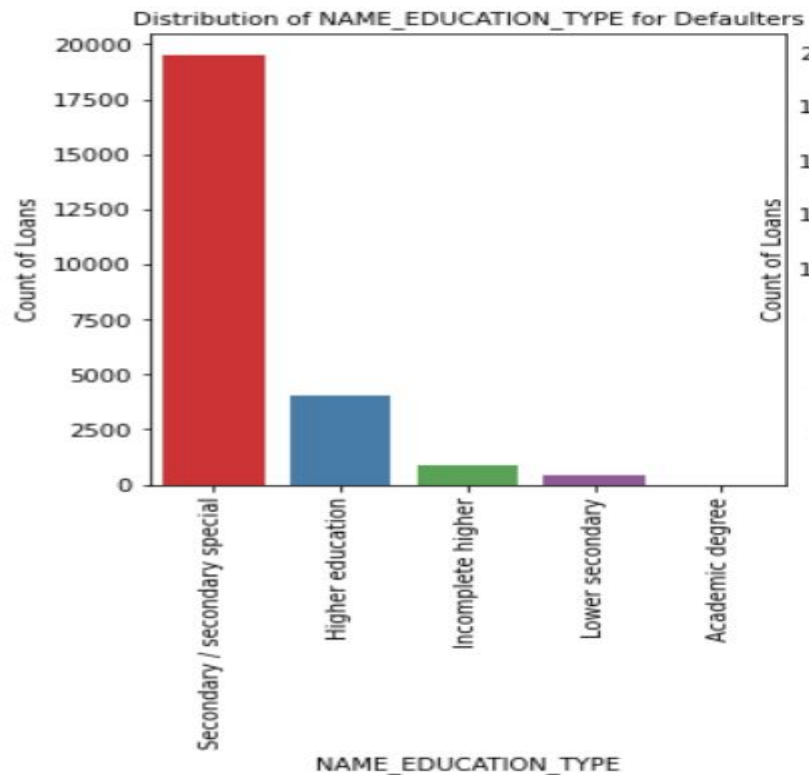
Distribution of Contract Status



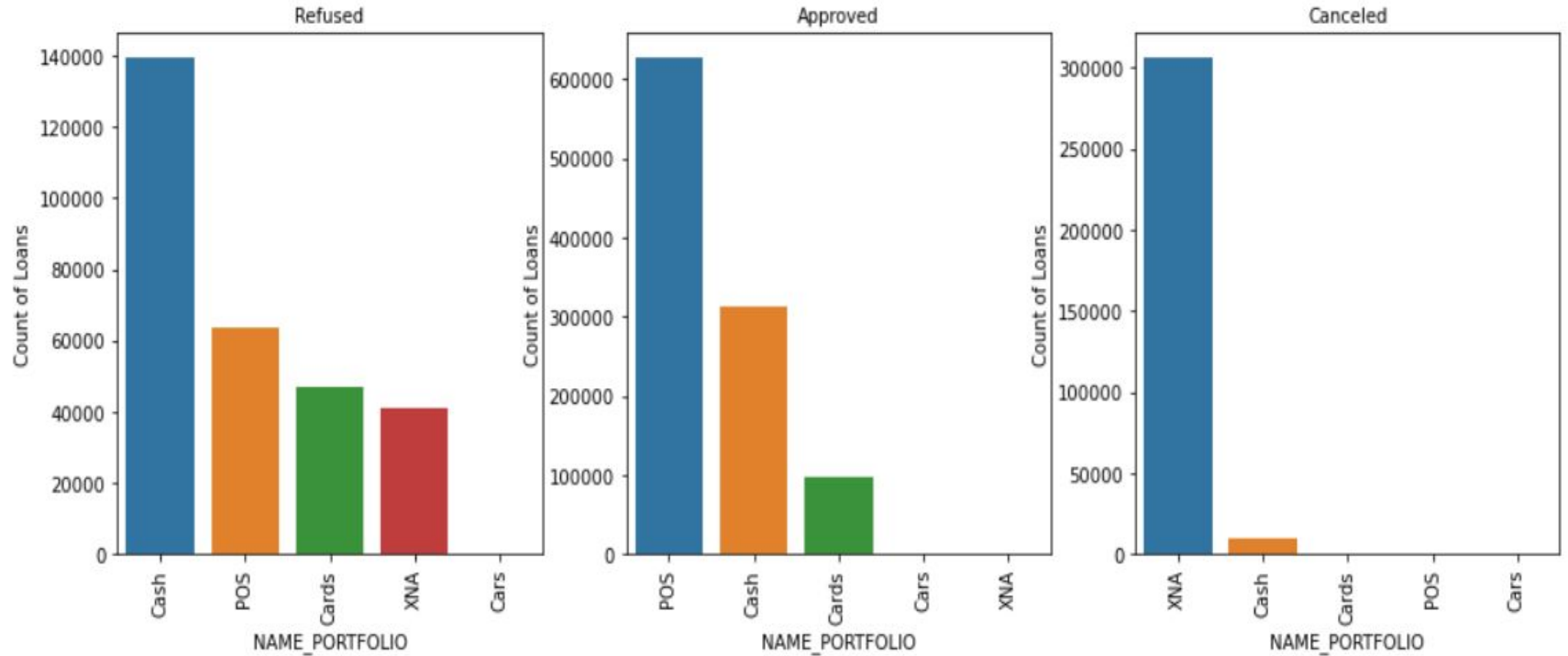
Distribution of Income Type Applicants



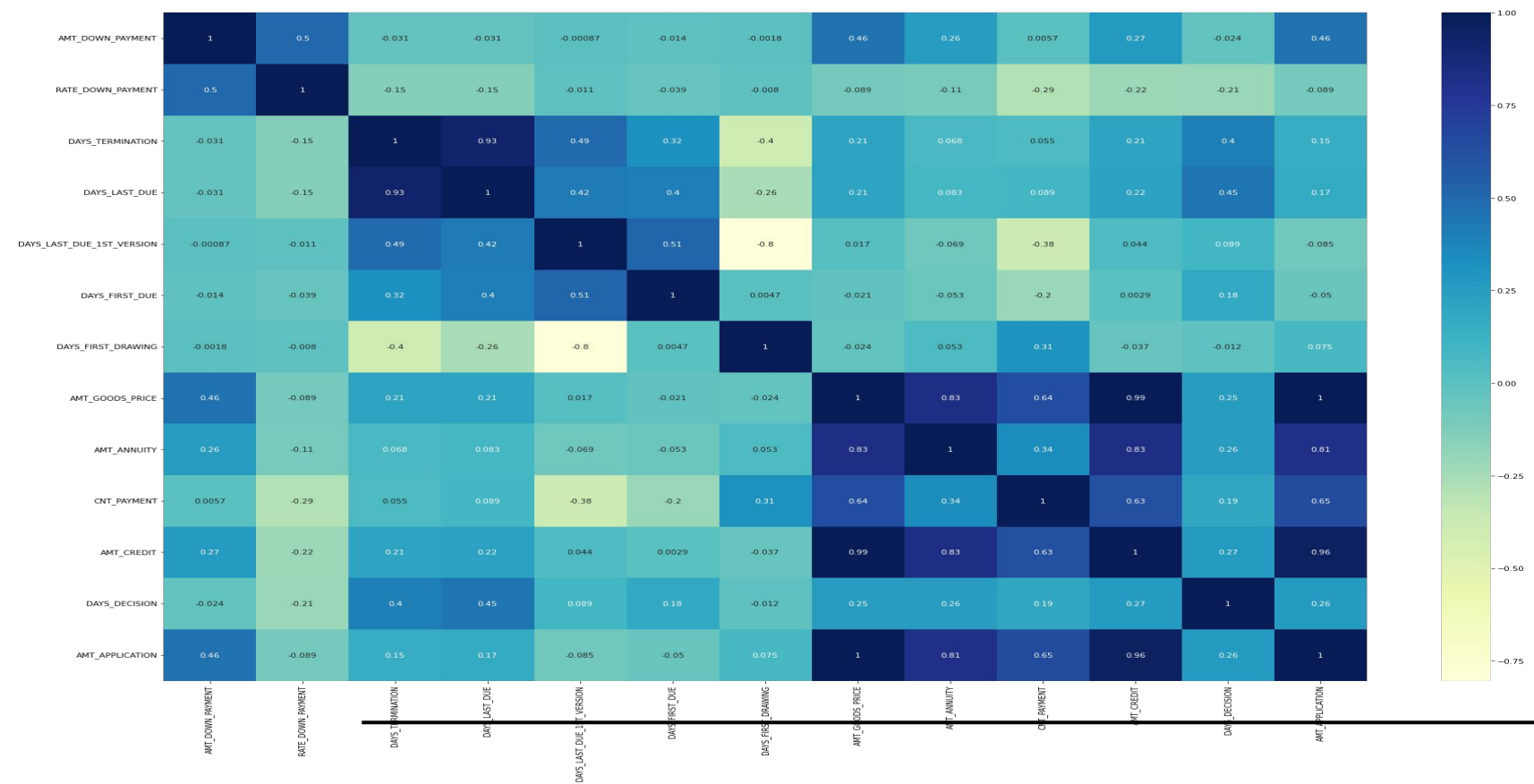
Distribution of Education Type for Applicants



Distribution of Name Portfolio



Correlation Heatmap for Approved Applicants



Loans can be credited to the following groups

- Clients who are working as a state servant.
- Old people of any income
- Client with high income category
- Old female client
- Client with higher education
- Any client who's previous loan was approved
- Refreshed client who has unused loan status previously

Risky Group

- Lower secondary educated clients are the most in number to be a defaulter when their previous loan was cancelled or refused.
- Male clients with civil marriage
- Previously refused loan status group

Thank You!!!
