CREDIT EDA PRESENTATION ON (Case Study)

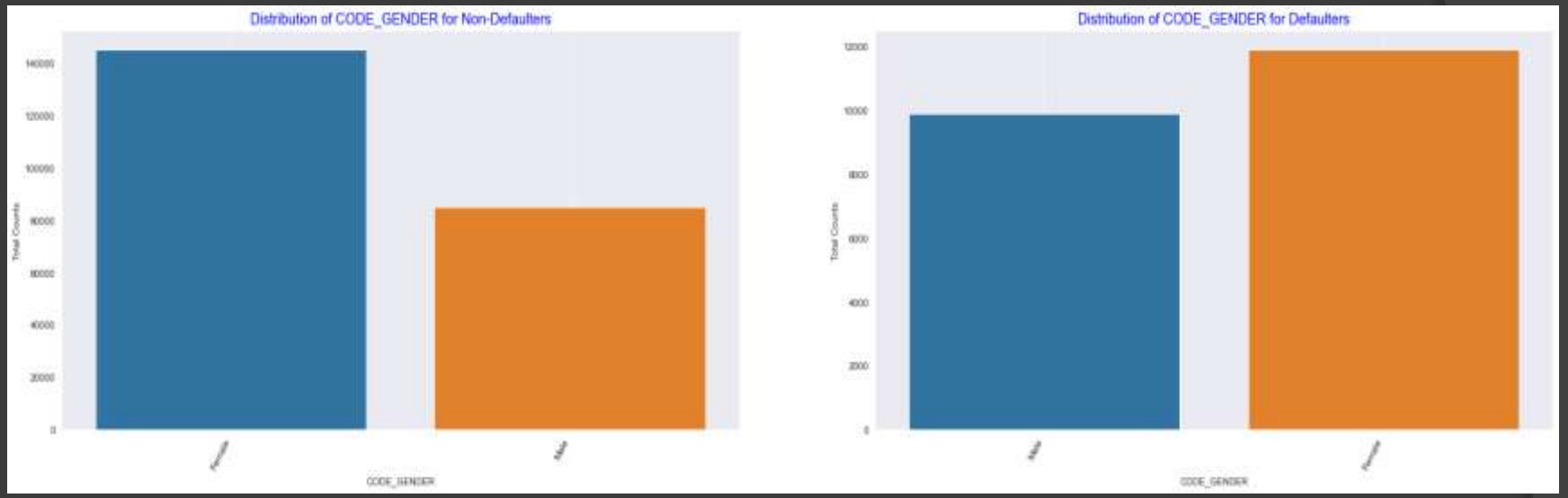
Problem Statement

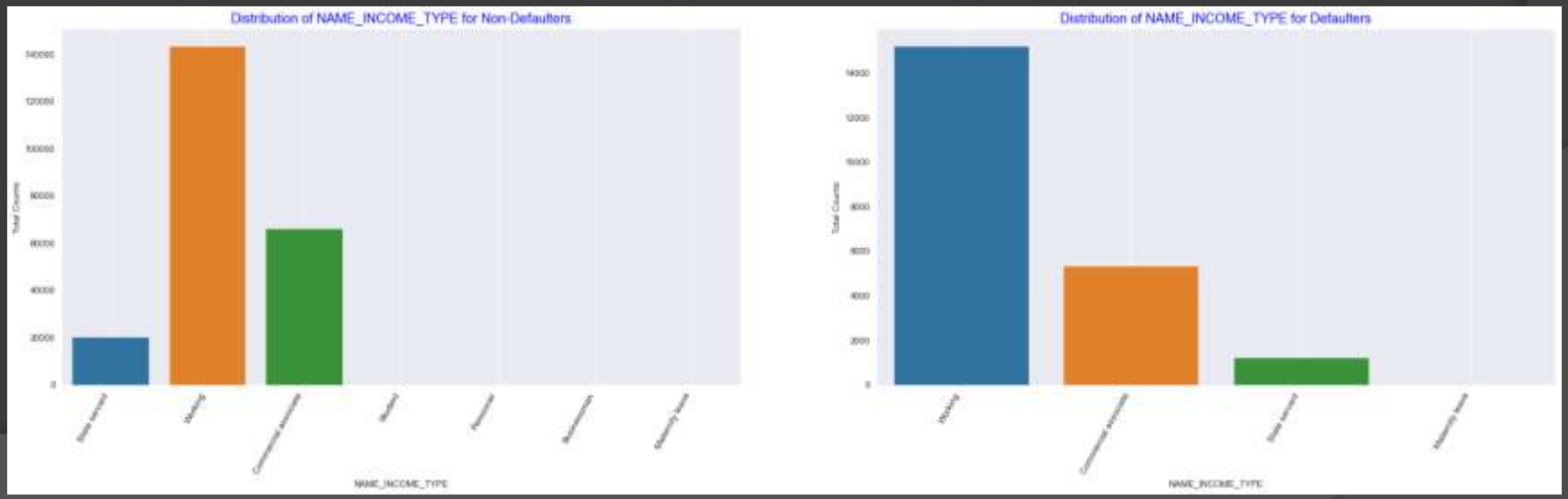
- Exploratory Data Analysis on Application data and previous data comparatively helps Banks to understand the nature of credit (loan)applicant ,to study factor affecting credit repayment which may help banking sector to avoid payment failure while giving loan to customer

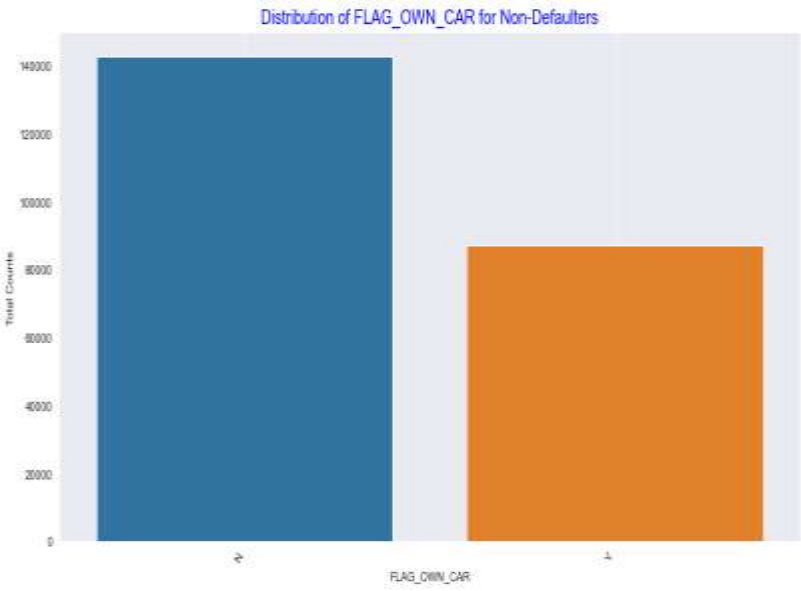
Overall Approach

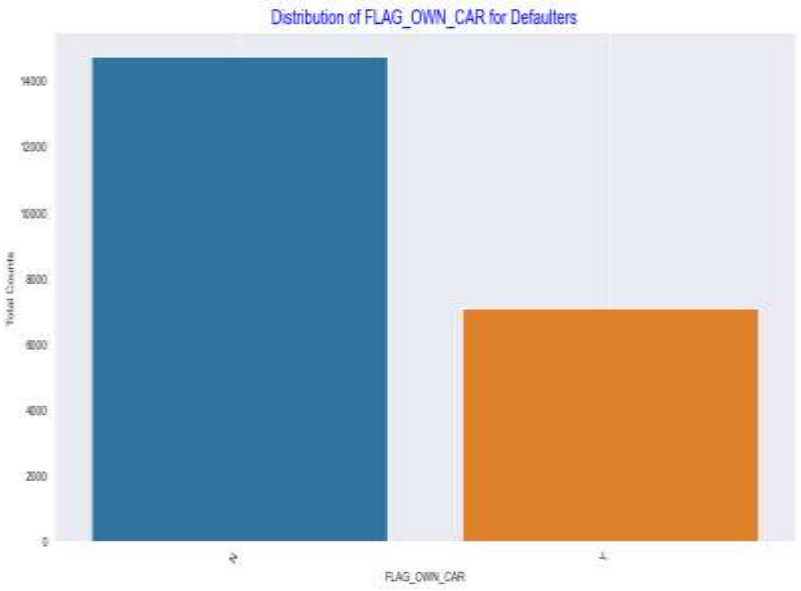
1. Understanding of problem statement and Business purpose
2. Understanding of Data
3. DATA CLEANING finding out missing or null values and treating them
4. Checking OUTLIER and treating them with IMPUTATION (using mean(),median(),mode())
5. Check the DATATYPE of column and Data Binning
6. UNIVARIATE analysis ,BIVARIATE analysis and CORRELATION
7. MERGING of Datasets
8. UNVIARIATE analysis
9. CONCLUSION

Univariate Analysis






Distribution of FLAG_OWN_CAR for Non-Defaulters
Total Counts
FLAG_OWN_CAR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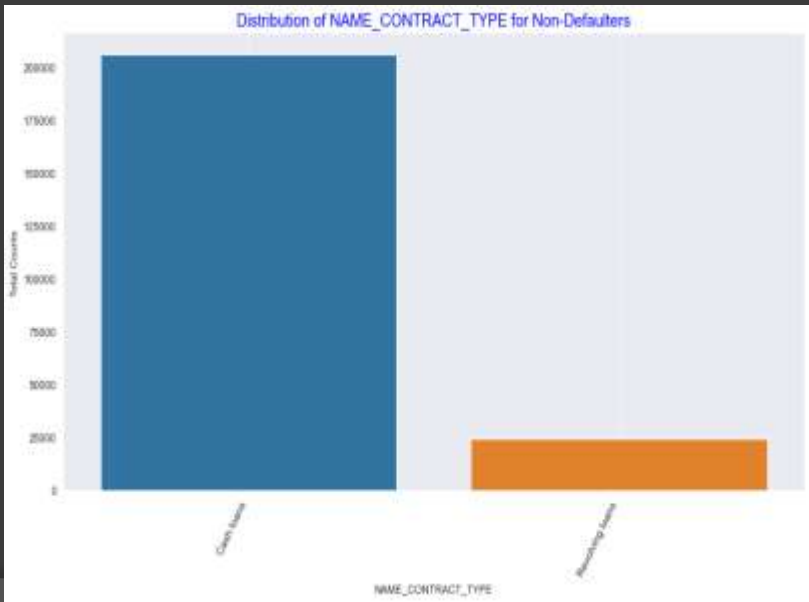
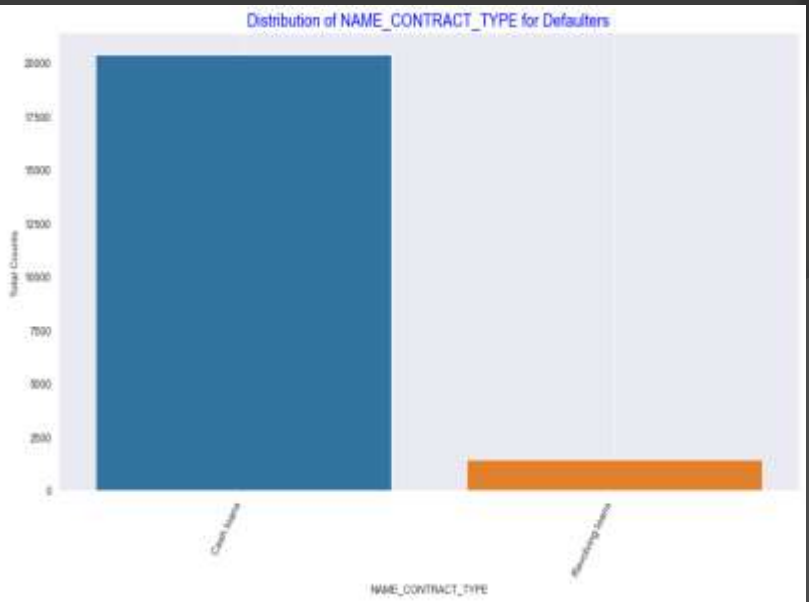
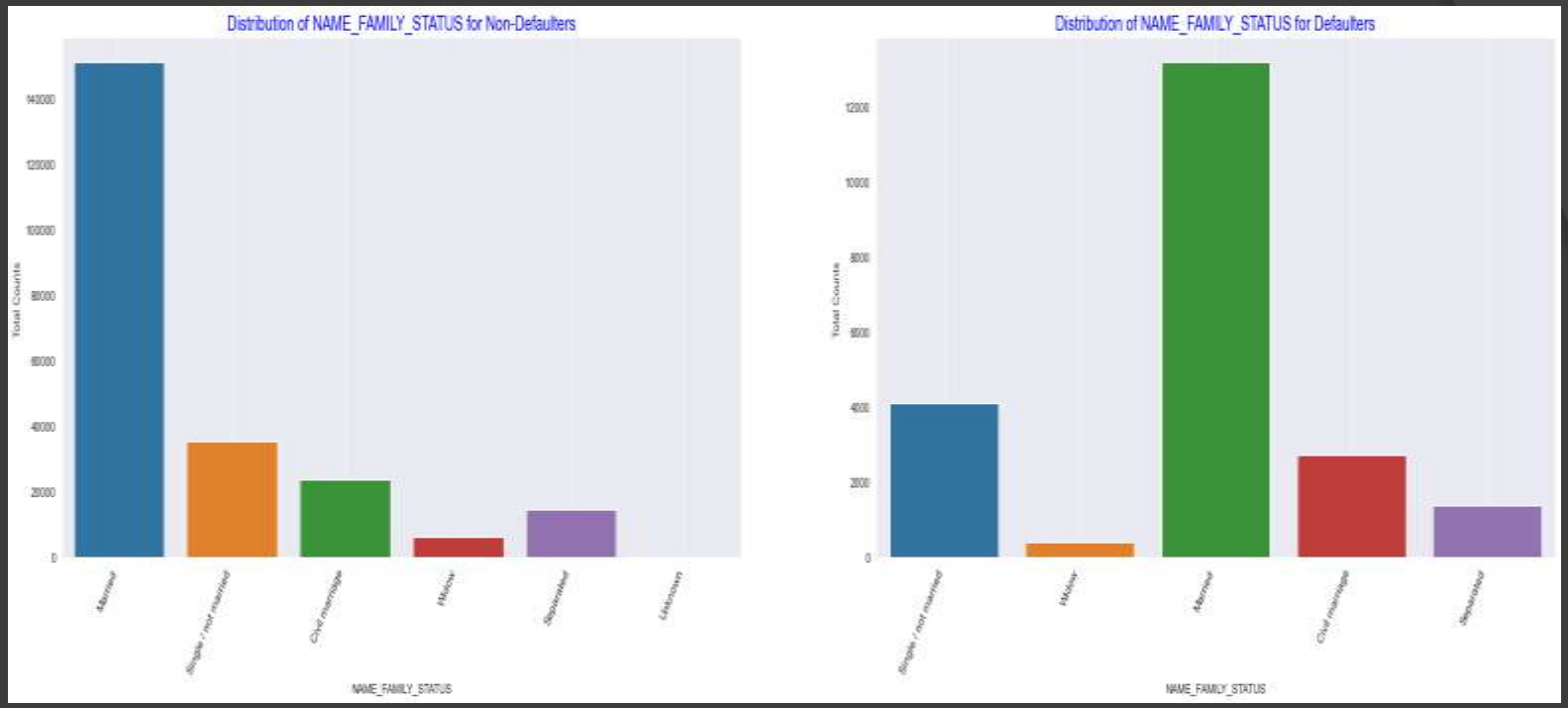
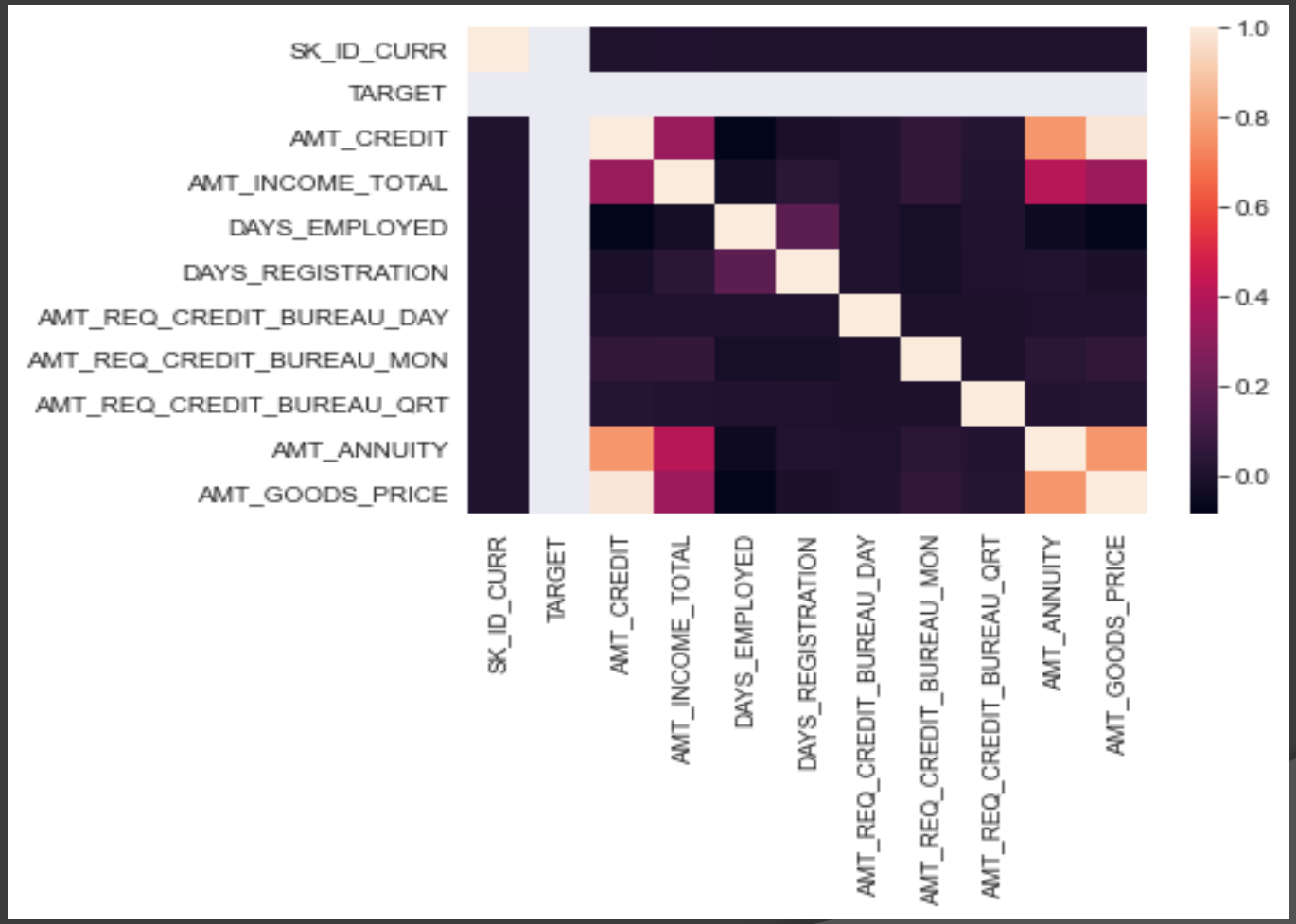

Distribution of NAME_CONTRACT_TYPE for Non-Defaulters
Total Counts
NAME_CONTRACT_TYPE


Distribution of NAME_CONTRACT_TYPE for Defaulters
Total Counts
NAME_CONTRACT_TYPE

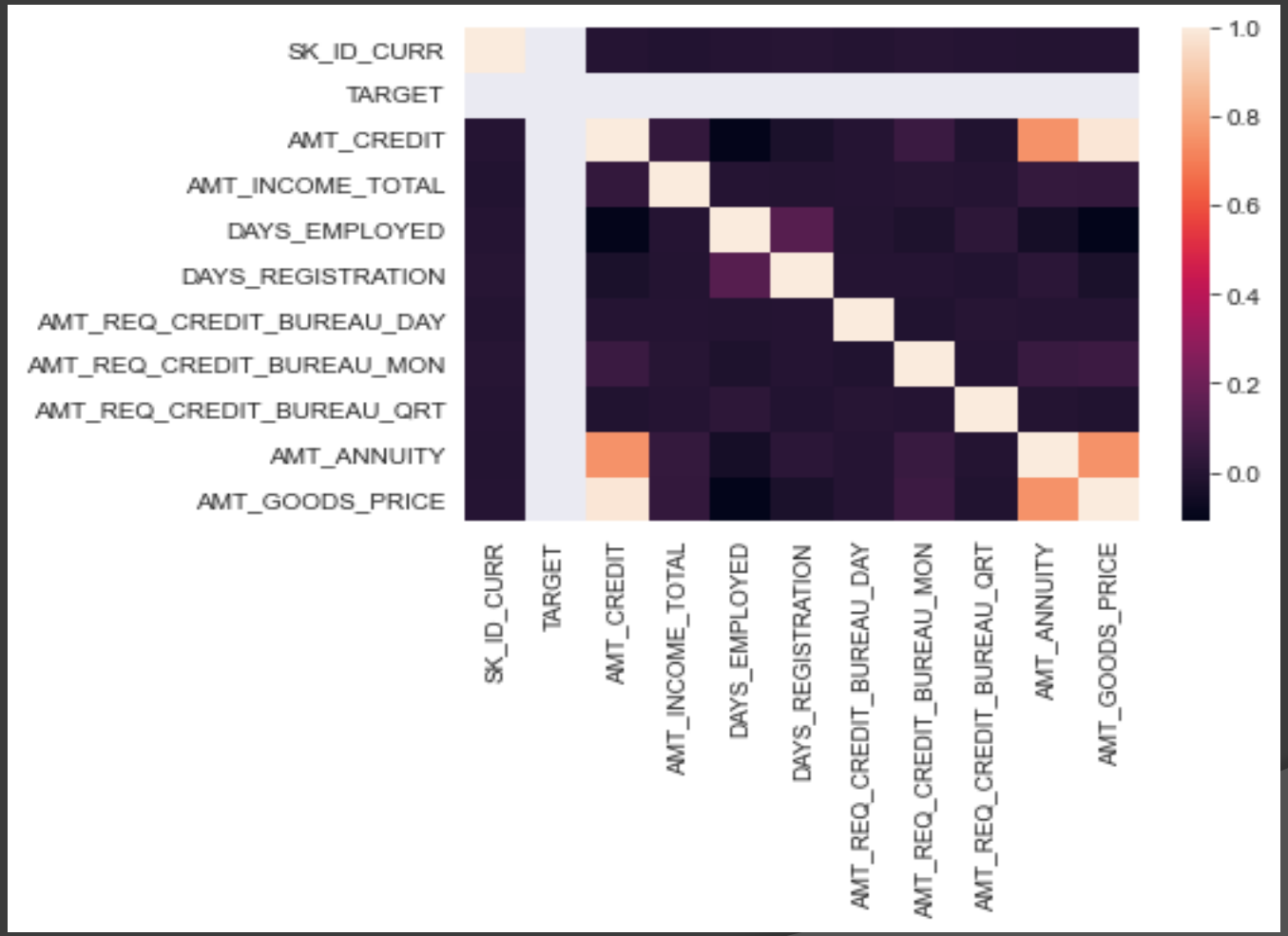


Female graph of defaulter is higher than male.
working, commercial associate defaulter graph is higher than students and businessman
cash loans is having higher number of credits than Revolving loans

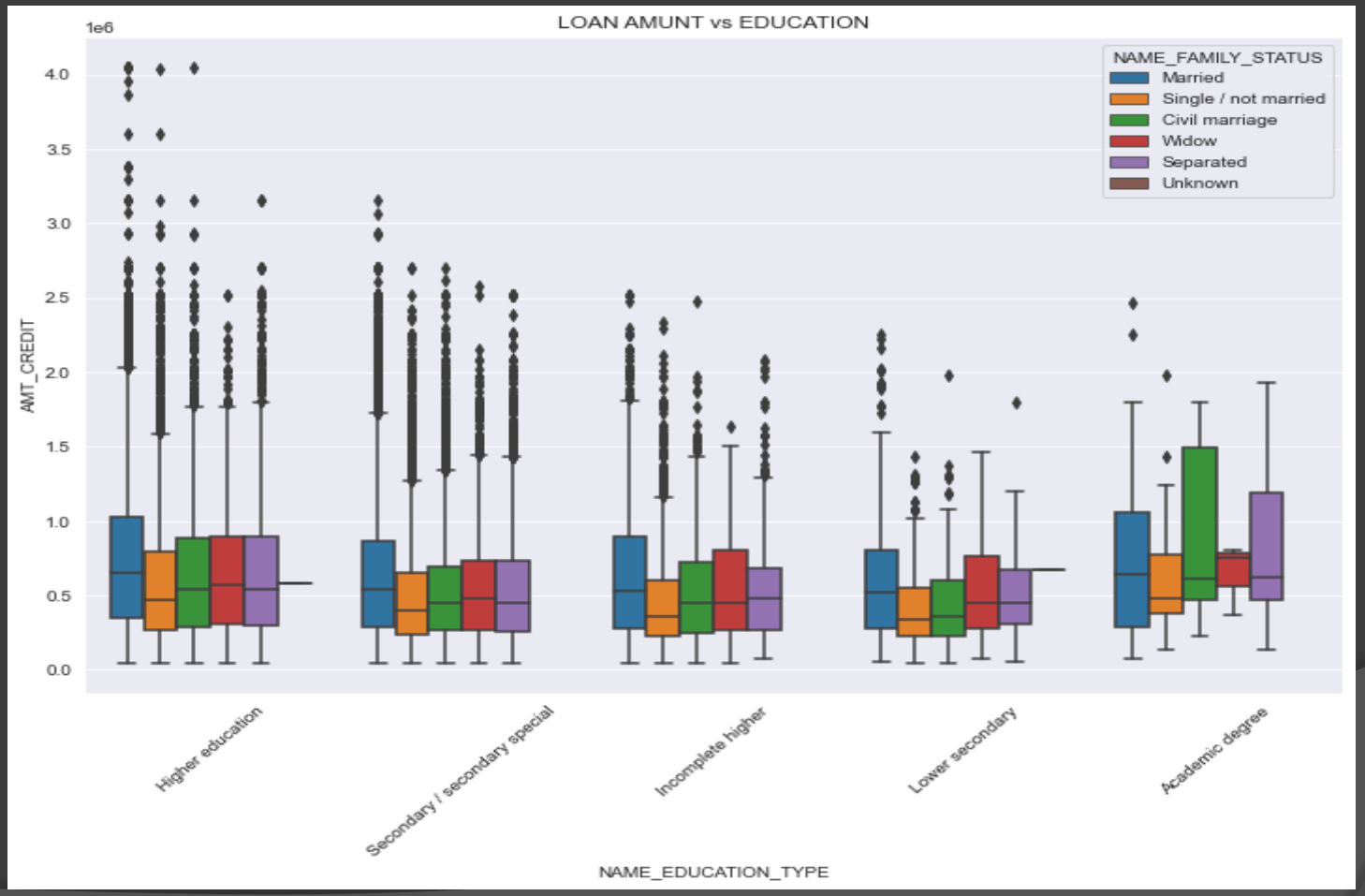
Correlation of Non Defaulter



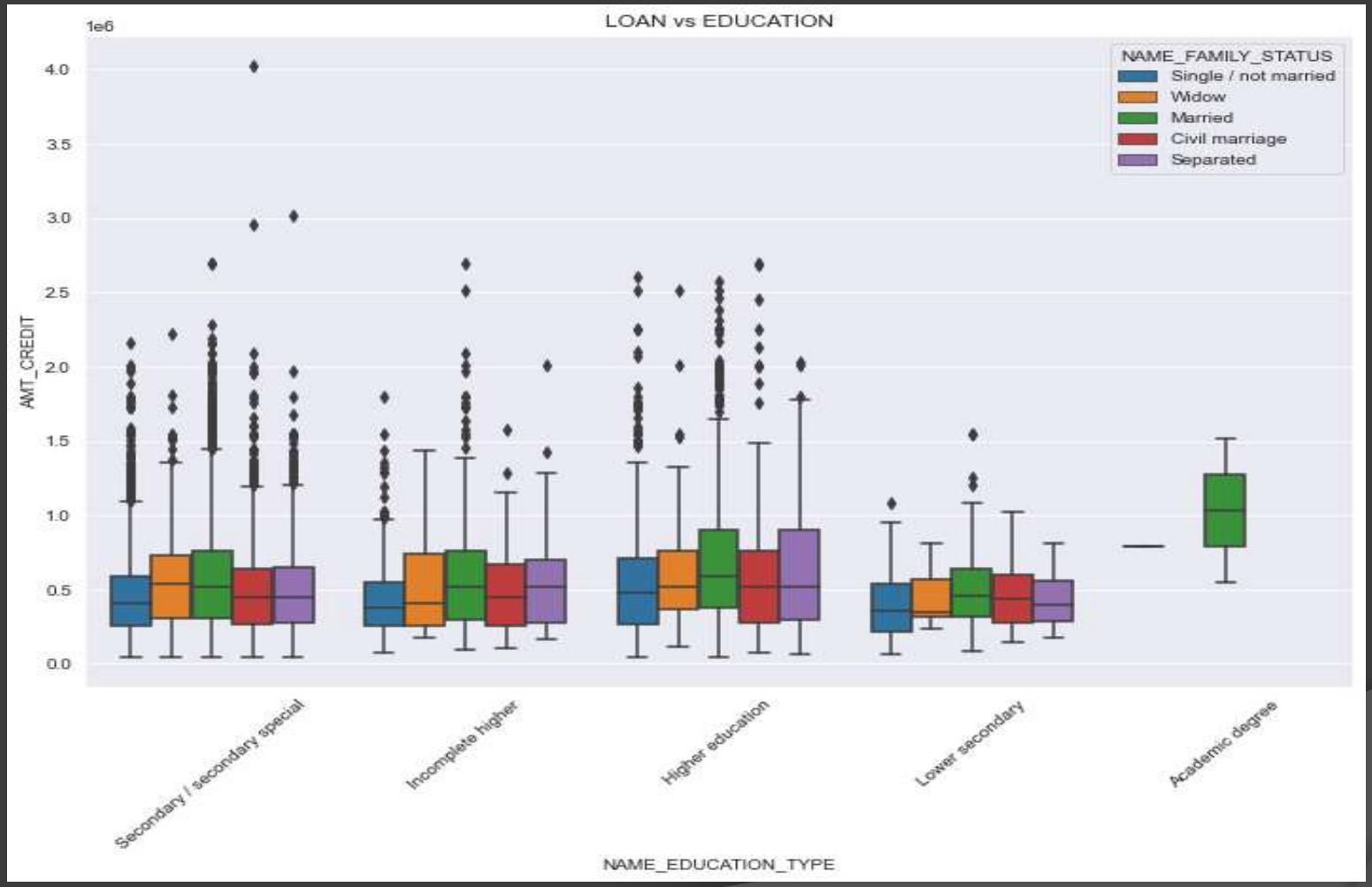
Correlation of Defaulter



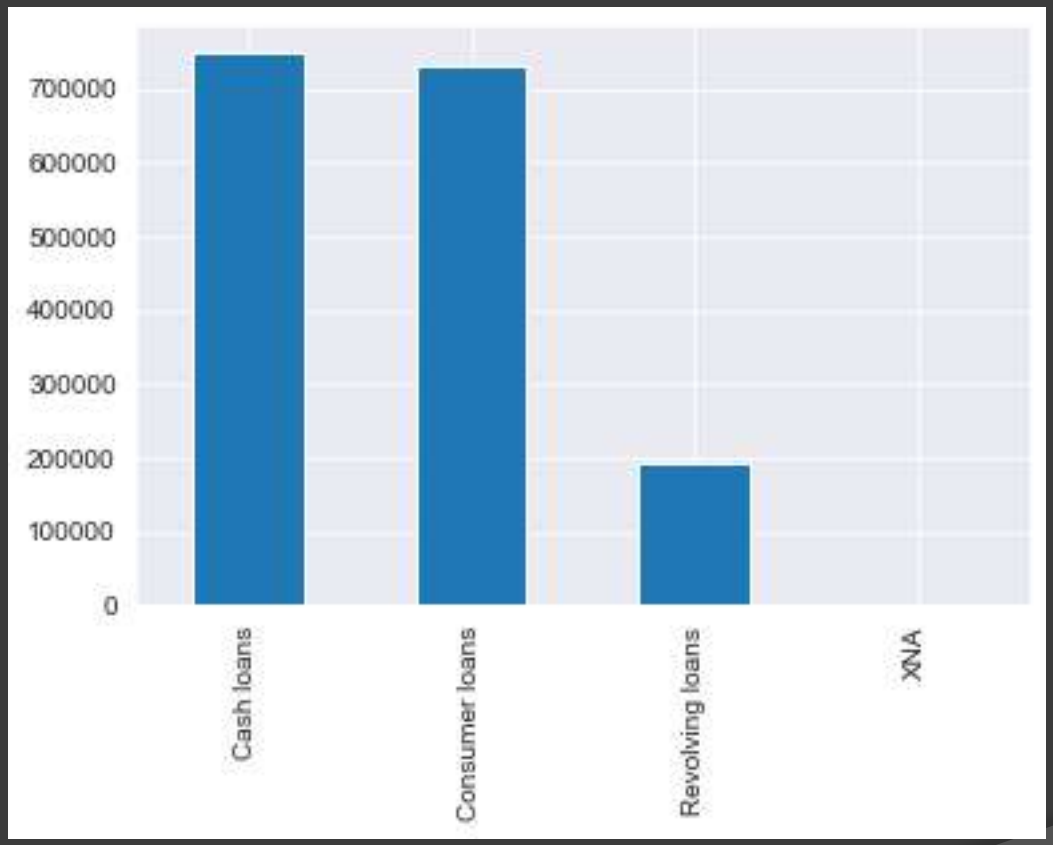
Bivariate Analysis of Non Defaulter

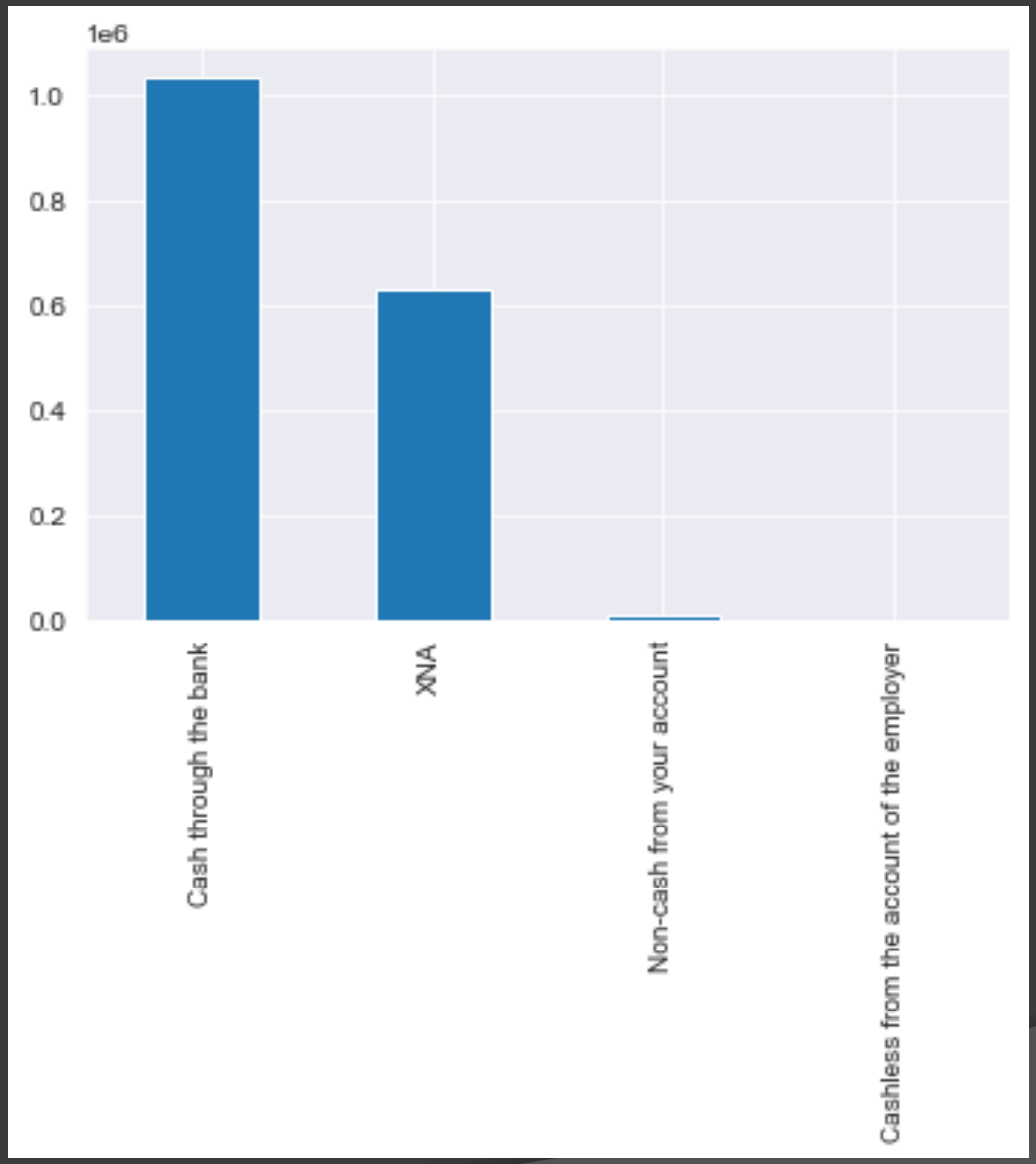


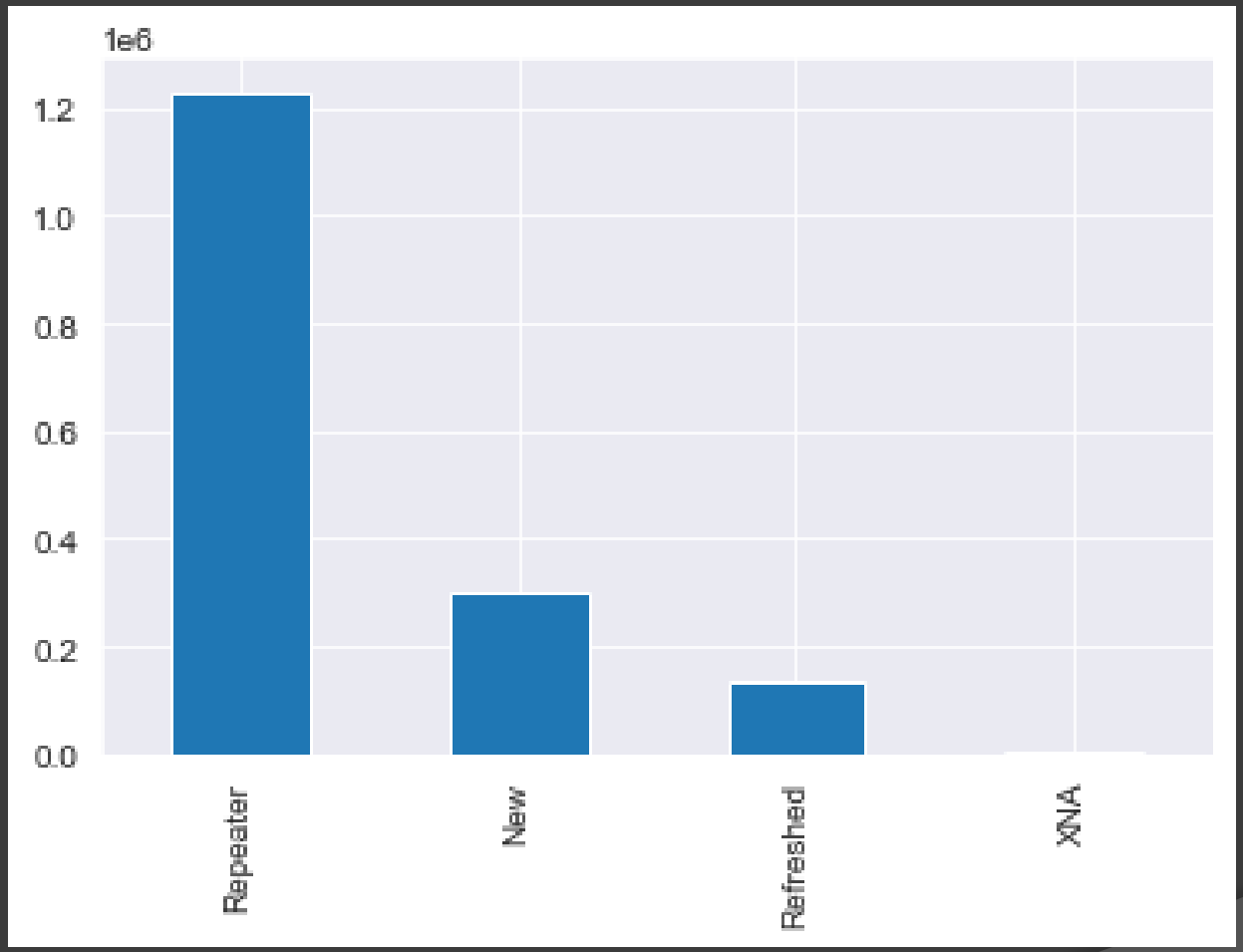
Bivariate Analysis for Defaulter



Univariate Analysis on merged data




1e6
1.0
0.8
0.6
0.4
0.2
0.0
Cash through the bank
XNA
Non-cash from your account
Cashless from the account of the employer


1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Repeater
New
Refreshed
XNA

Conclusion

- Recommendation

1)Bank must give credit to that category of customer which are doing contract basis job for future security o payments

3)Bank must focus on customer housing type with Parents for more successful payment

4)Bank can provide loan to government servant

5)Customer with high income category

6)Costumer who are well educated

7)Bank can choose Senior citizen age group

Avoidance

1. Bank must avoid to give loan to 'working' income category as more no of payment failure
2. Previously rejected Loan Applications