Loan Defaulter Risk Analysis(EDA)

Purpose

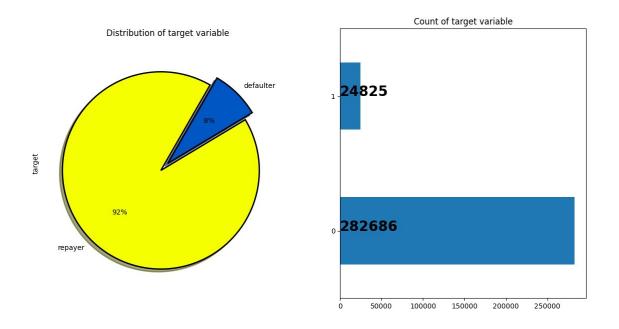
Credit risk analysis will help to make a decision for loan approval based on the applicant's profile.

Which controls loss of business to the company and avoid financial loss for the company.

Steps:

- 1. Data Understanding and Sourcing
- 2. Check for missing values and duplicates
- 3. Imputing missing values
- 4. Inspecting Incorrect/Unknown Values
- 5. Features Selection
- 6. Standardization
- 7. Features Engineering
- 8. Data Visualization
- 9. Encoding
- 10. Prediction Model

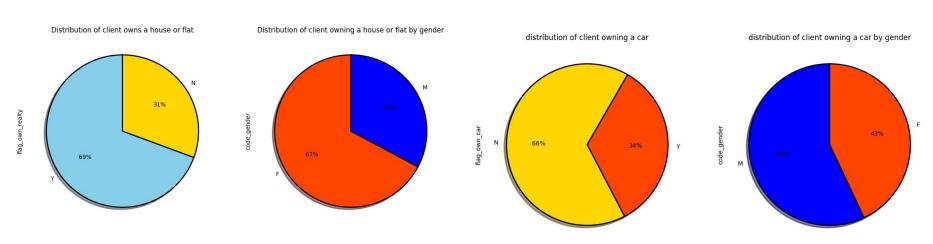
Distribution of Target variable



Insight:

8% out of total client population have difficulties in repaying loans.

Distribution of client owning a car and by gender

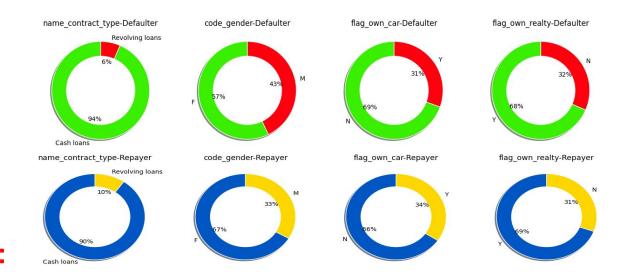


Insight:

SUBPLOT 1: Distribution of client owning a car. 34% of clients own a car.

SUBPLOT 2: Distribution of client owning a car by gender. Out of total clients who own car 57% are male and 43% are female.

Distribution of contract type ,gender ,own car ,own house with respect to target

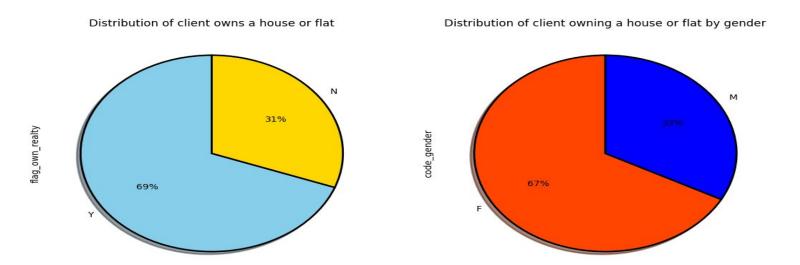


Insight:

Percentage of males is 10% more in defaults than non defaulters.

Percentage of Cash Loans is 4% more in defaults than Revolving Loans.

Distribution of client owning a house or flat and by gender



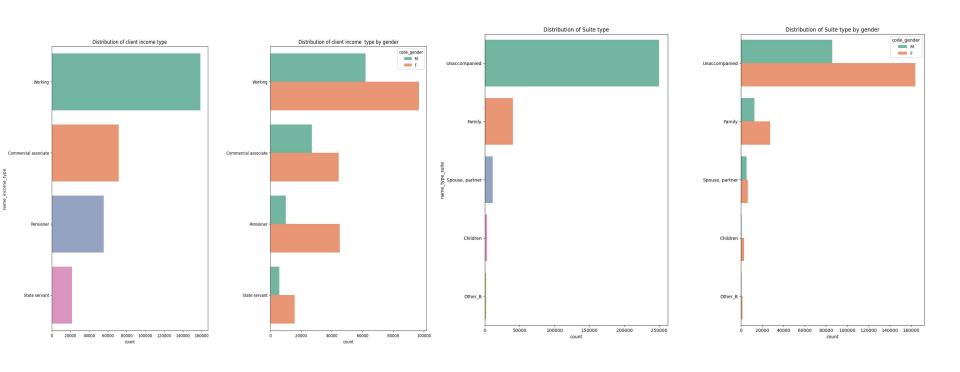
Insight:

SUBPLOT 1: Distribution of client owning a house or flat . 69% of clients own a flat or house .

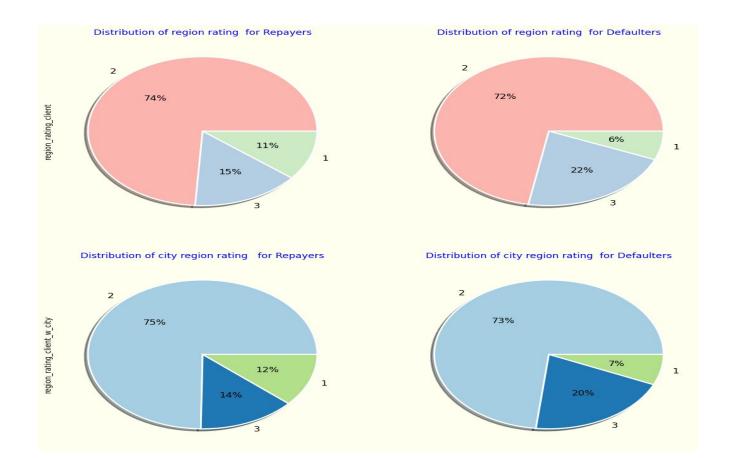
SUBPLOT 2: Distribution of client owning a house or flat by gender. Out of total clients who own house 67% are female and 33% are male.

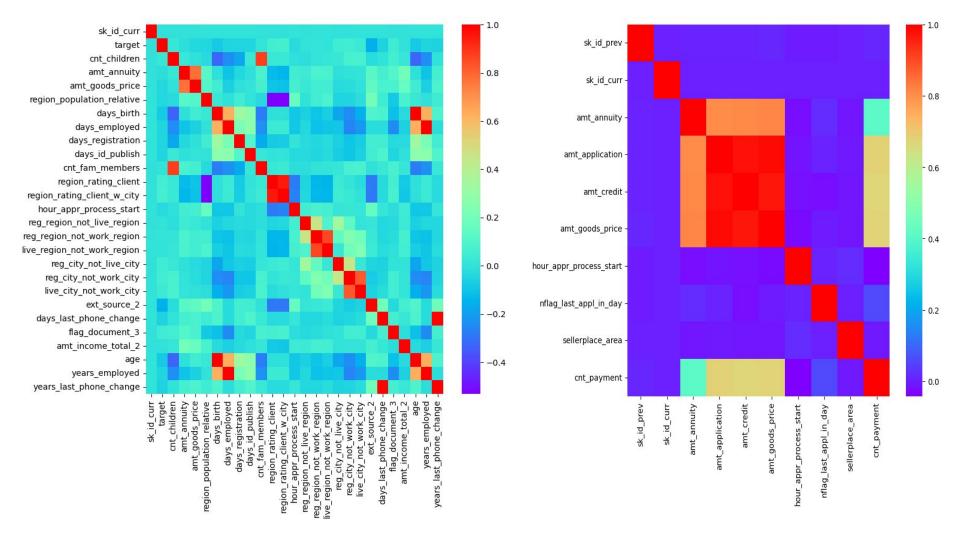
Distribution of client income type

Distribution of Suite type

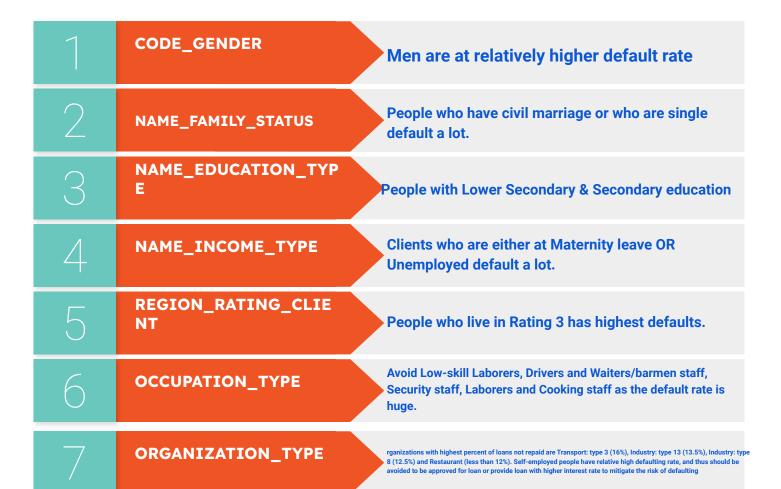


Distribution of registration days for target variable.

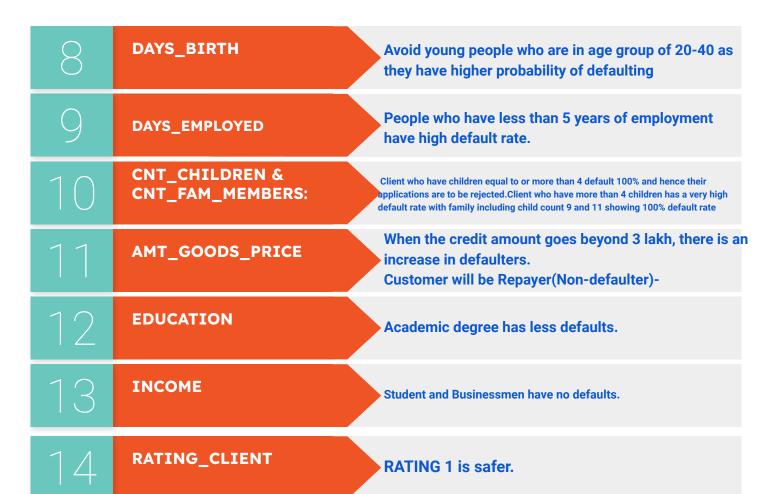




Decisive Factor whether an applicant will be Defaulter:



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