LENDING CLUB CASE STUDY SUBMISSION

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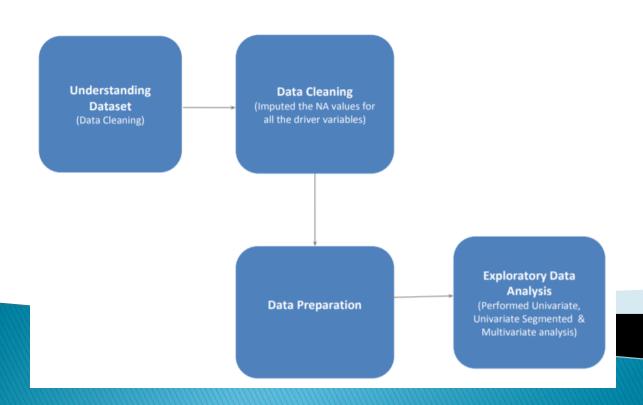
Objectives

Understand the 'Driving Factors' or 'Driver Variables' behind Loan Default

Loan Lending Organizations may choose to utilize this knowledge for its risk assessment of new loan applicants

Identify type of Loan applicant

Methodology Used: CRISP-DM



Data Cleaning Steps

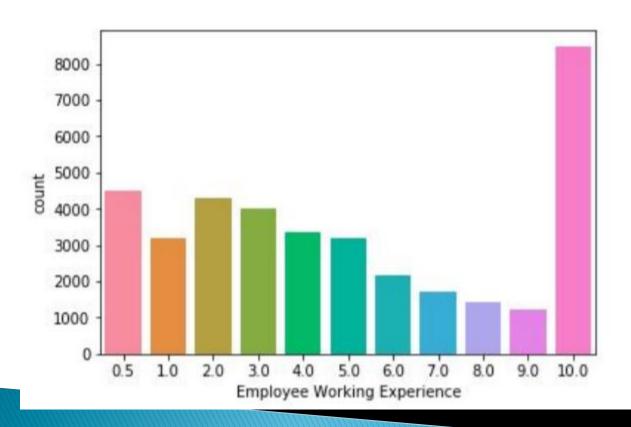
- > Delete columns: Delete unnecessary columns.
- Remove outliers: Remove high and low values that may affect the results of analysis.
- >Missing values: Treat missing values with appropriate approach.
- >Duplicate data: Remove identical rows, remove rows where some columns are identical.
- Filter rows: Filter by segment, filter by date period to get only the rows relevant to the analysis.

Analysis

AIM of project was to analyze how customer variables affect in loan being defaulted

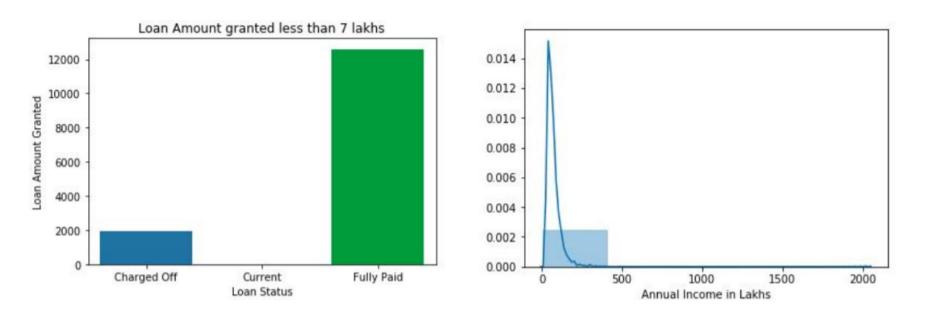
NA values were imputed
Few NA values were deleted from dataset
Some derived columns were prepared using existing columns
Histogram, Bar Charts and Box plots were used in EDA
Outliers were found using Box plots and were mentioned in the EDA
Bivariate and multi variate analysis was done of different columns

Work Experience analysis of Applicants



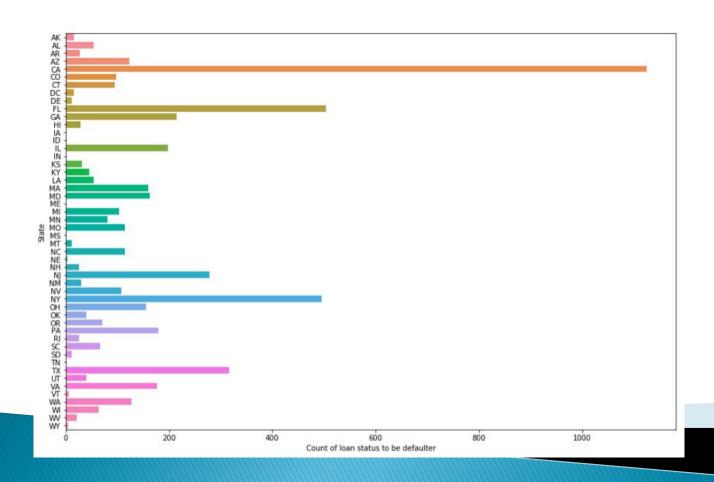
High percentage of employees having 10+ years of work experience

ANALYSIS: LOAN AMOUNT



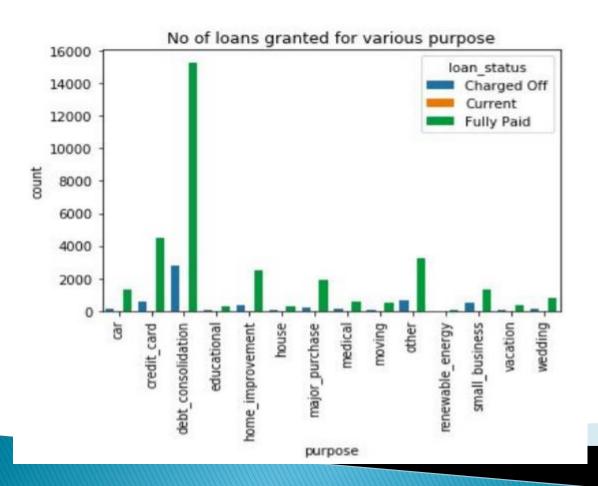
- ➤ Most of the loans are fully paid ➤ Majority of loan applicants have
- ➤ Very less loans are there which are a charged off

Defaulters by state



California, florida, Newyork and Texas have high probablity for default

Reason for loan



>Most loans were granted for Debt consolidation

Thank you