Lending Club Case Study

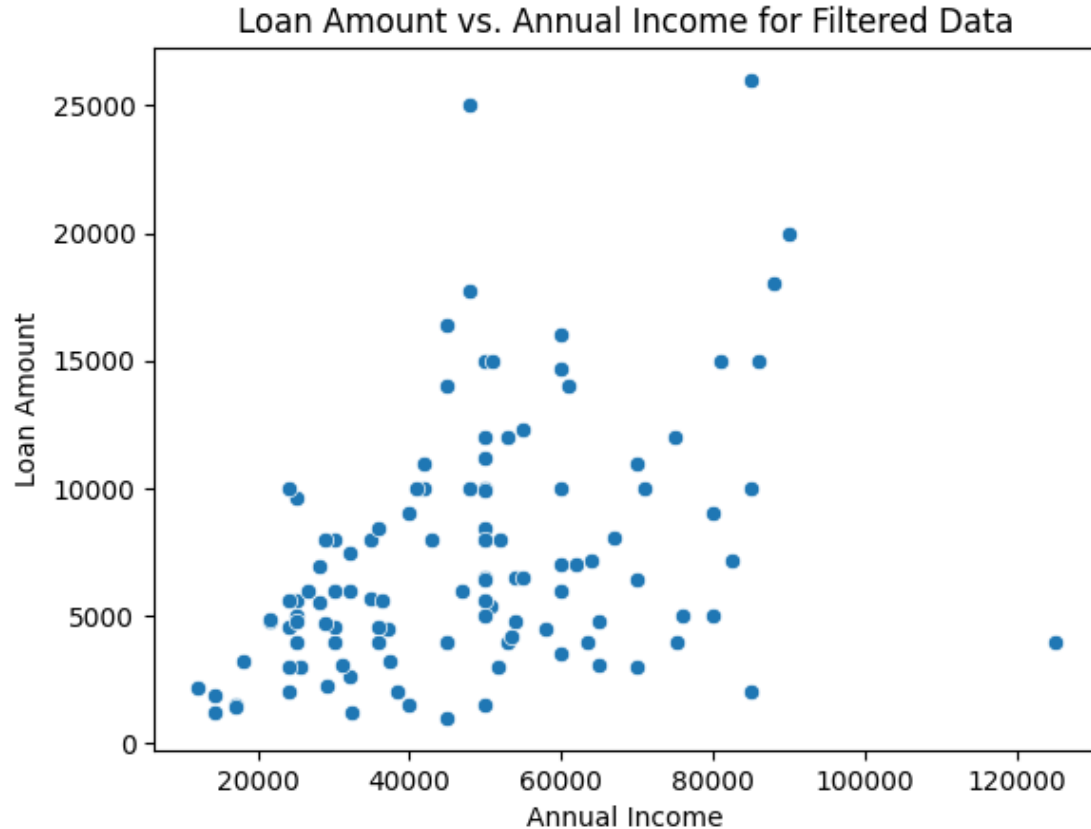Presentation Submitted By: Vishal Verma

Problem Statement

- On loan data set is to aim is to identify patterns which indicate if a person is likely to default, which may be used for taking actions such as denying the loan, reducing the amount of loan, lending (to risky applicants) at a higher interest rate, etc.

Steps Taken Care While Analysis

- Understand Data Dictionary
- Understand Data
- Loading Data Set
- Finding and remove missing values
- Find Categorical and Numerical Variables
- Label Encoding
- Finding Outlier
- Perform Univariate & Bivariate Analysis
- Conclusion on Result

Bivariate Analysis Result

Graphical Representation of Result

Loan Amount vs. Annual Income for Filtered Data

Condition

Compare loan amount vs annual income If person home ownership is Rent, Emp length less than 3, fall under grade C, Payment plan is No, and delinquency in the borrower's credit file for the past 2 years.

In the right side of graph generated based on the above conditions and can identify person is likely to default

Thank You!