**Loan Data Set – Lending Club**

Lending Club is a peer-to-peer loan company. Lending Club provides personal and commercials loans to borrowers, which are then backed by investors in the loans. The peer-to-peer model allows for lower interest-rates to borrowers and for investors to earn money on the interest paid back to them.

**Operations**

Over 80% of the loans provided by Lending Club are personal. These loans are mostly made by borrowers in order to consolidate debt or pay off credit cards, but they may be provided for numerous reasons such as weddings, vacations, and for small businesses.

**Geographic Reach**

California-based Lending Club operates its business throughout North America.

**Strategy**

Personal Loans are tied to the economy – When the economy is good, people are more confident, willing to purchase on credit, and capable of paying back what they borrowed. Over the past two years, Lending Club has provided over 3 billion dollars in loans. The company provides personal loans for amounts between $1,000 and $40,000 that can be repaid over time periods of 3 or 5 years. Lending Club approves loans based on credit history, credit score, debt to income ratio (dti), and the amount of the loan applied for. Lending Club is highly selective with the loans it accepts, with over an 80% denial rate over the past four years. This ensures that Lending Club provides high quality opportunities for itself and for lenders.

After some negative publicity at the board level, Lending Club is looking to refocus its efforts on providing high quality loans. They are looking to improve the company’s ability to predict borrowers who will default on loans. Additionally, Lending Club is interested in predicting how much a borrower would be able to pay back, regardless of how large of a loan they have applied for.

**Competitors**

Marcus by Goldman Sachs, Citizens One, OneMain, Prosper, Avant, Upstart, Circleback Lending

**The Data**

**Here is a summary of the data:**

Data Original columns (total 54 columns):

* loan\_amnt - 50000 non-null int64 - *The listed amount of the loan applied for by the borrower. If at some point in time, the credit department reduces the loan amount, then it will be reflected in this value.*
* term - 50000 non-null float64 - *The number of payments on the loan. Values are in months and can be either 36 or 60.*
* sub\_grade - 50000 non-null object - *Lending Club assigned loan subgrade: A1, A2, A3, etc. with A1 being the best*
* emp\_length - 48198 non-null float64 - *Employment length in years. Possible values are between 0 and 10 where 0 means less than one year and 10 means ten or more years.*
* home\_ownership - 50000 non-null object - *The home ownership status provided by the borrower during registration. Our values are: RENT, OWN, MORTGAGE, OTHER.*
* annual\_inc - 50000 non-null float64 - *the self-reported annual income provided by the borrower during registration.*
* purpose - 50000 non-null object - *A category provided by the borrower for the loan request.*
* delinq\_2yrs - 50000 non-null int64 - *The number of 30+ days past-due incidences of delinquency in the borrower's credit file for the past 2 years*
* mths\_since\_last\_delinq - 21874 non-null float64 - *The number of months since the borrower's last delinquency.*
* open\_acc - 50000 non-null int64 - *The number of open credit lines in the borrower's credit file.*
* pub\_rec - 50000 non-null int64 - *Number of derogatory public records*
* revol\_bal - 50000 non-null int64 - *Total credit revolving balance*
* total\_acc - 50000 non-null int64 - *The total number of credit lines currently in the borrower's credit file*
* collections\_12\_mths\_ex\_med - 50000 non-null int64 - *Number of collections in 12 months excluding medical collections*
* mths\_since\_last\_major\_derog - 7120 non-null float64 - *Months since most recent 90-day or worse rating*
* acc\_now\_delinq - 50000 non-null int64 - *# of accounts on which the borrower is delinquent.*
* tot\_coll\_amt - 35382 non-null float64 - *Total collection amounts ever owed*
* tot\_cur\_debt - 35382 non-null float64 - *Total current balance of all accounts*
* total\_credit\_rv - 35382 non-null float64 - *Total revolving high credit/credit limit*
* loan\_status - 50000 non-null object - *Current status of the loan*