

LENDING CLUB CASE STUDY

Loan analysis to a loan company

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LENDING CLUB ANALYSIS OVERVIEW

- Identifying the Business Problem
- Data Description
- Data Preparation & Processing
- Models
- Summary of Findings
- Conclusion

IDENTIFYING THE BUSINESS PROBLEM

- Lending Club is a Peer-to-Peer lending company that utilizes a group of private investors to fund loan requests.
- Lending Club's model for risk assessment categorizes borrowers by assigning them a grade and a subgrade based on their credit history.
- Investors are presented with a list of borrowers, along with their assigned risk assessment grades, and they have the opportunity to choose which borrowers they will fund, and the percentage of funding that they will cover.
- Our business problem is that investors require a more comprehensive assessment of these borrowers than what is presented by Lending Club in order to make a smart business decision, by identifying new borrowers that would likely default on their loans.

DATA PREPARATION & PROCESSING

- Prior to data mining model analysis, the data was reviewed, cleaned and prepared as follows: Removed columns that obviously had no relation to the analysis in question (E.g. ApplicantID, Employee Title etc.)
- Removed columns that had bad quality data (i.e. missing values in observations, unintelligible values etc.)
- Removed columns that had identical relationships to the analysis in question (E.g. funded_amnt and funded_amnt_in as they are always the same as loan_amt)
- Established derived columns from existing columns to facilitate model analysis (E.g. Credit_History_years, Converted binary dependent variable column called "default", mths_since_last_deling etc.)

GRAPHS

- Data is showing In graphs and all with loan details.
- Four type of graphs are shown .

THANKING YOU

- Hello, going to share honestly I am not good in programming language I belongs to not particular proper IT . But I am trying my best to understand all the things and doing hard working as well, this submission has to be submitted with full of effort and full of dedication .
- I have discusses to my chat buddy to provide me some python boot camp video , they will help out me to do better ahead ,

Just requesting please help.

