Lending Club Case Study

Background

LendingClub is a prominent peer-to-peer lending platform that facilitates the connection between individuals seeking loans (borrowers) and individuals or institutional investors willing to provide the funds (lenders). Borrowers apply through online platform.

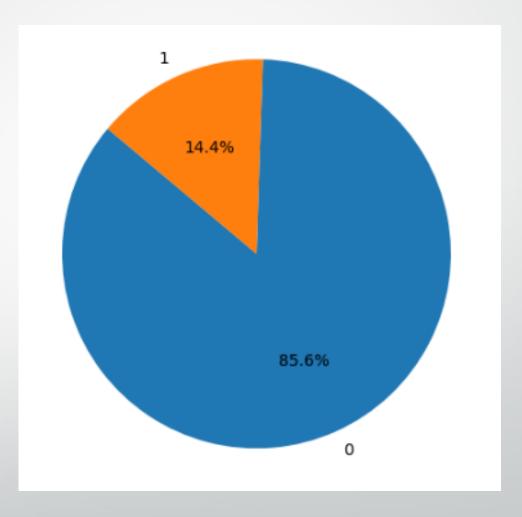
Business Objective:

To identify the variables which are strong indicators of default and provide insights to make the decision

Data Understanding

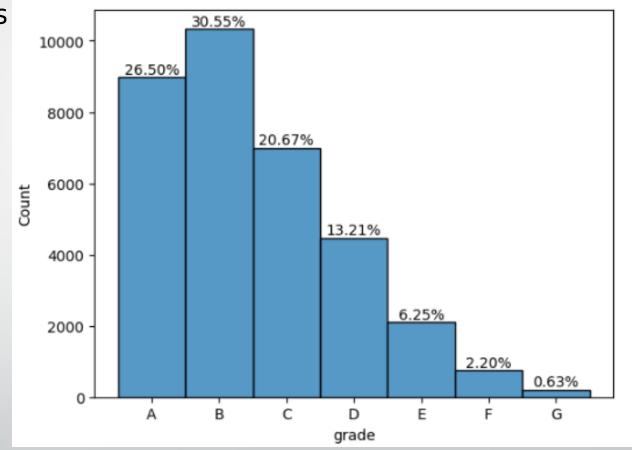
Default Distribution

14.4% of the Total Loans are Default



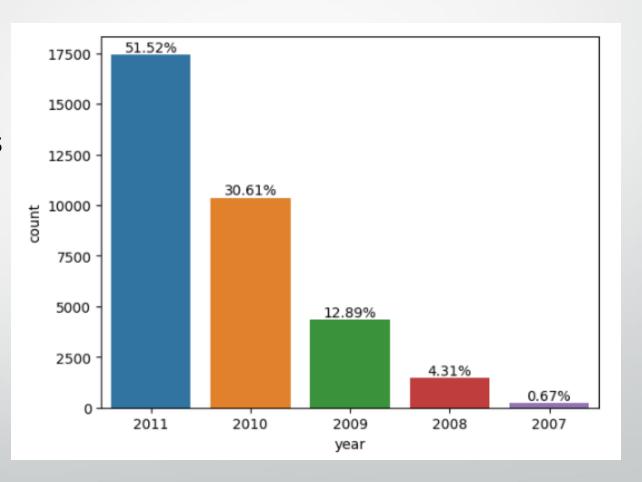
Loan Distribution Across Grades

30.55% Of The Total Loans
Are Given To Grade B



Time Frame of Data 2007-2011

75% Increase In ApplicantsIn 2011 Compared To 2010120% Increase In ApplicantsIn 2010 Compared To 2009



Home Ownership

50.63% Of The Loan

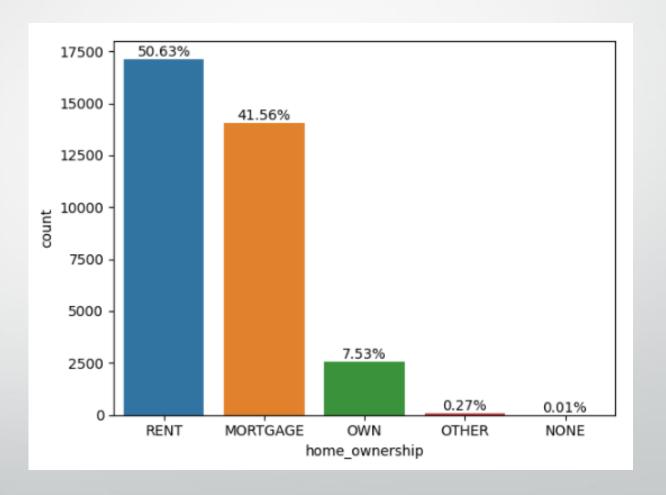
Applicant Lives In Rented

Home

41.56% Of The Loan

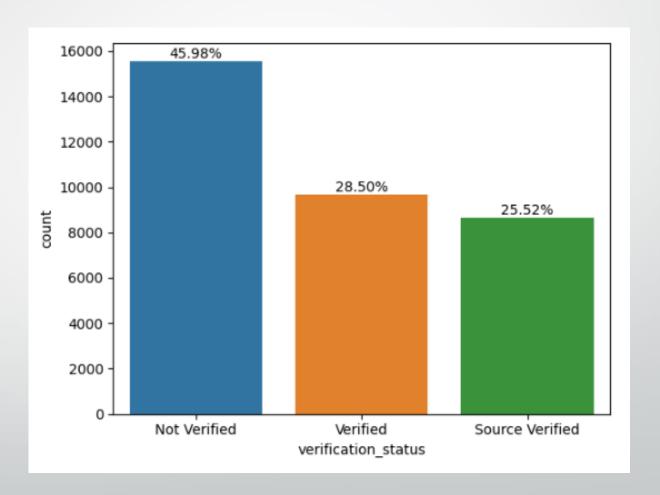
Applicant Has Mortgaged

Their Home



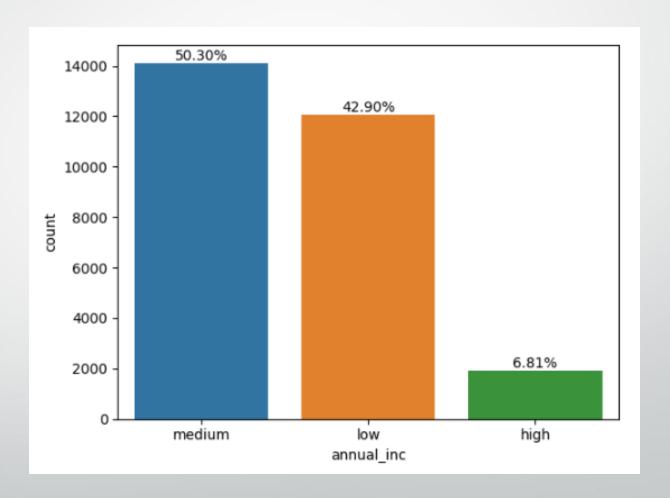
Loan Applicant Verification

45.98% Of The Loan
Applicants Are Not Verified



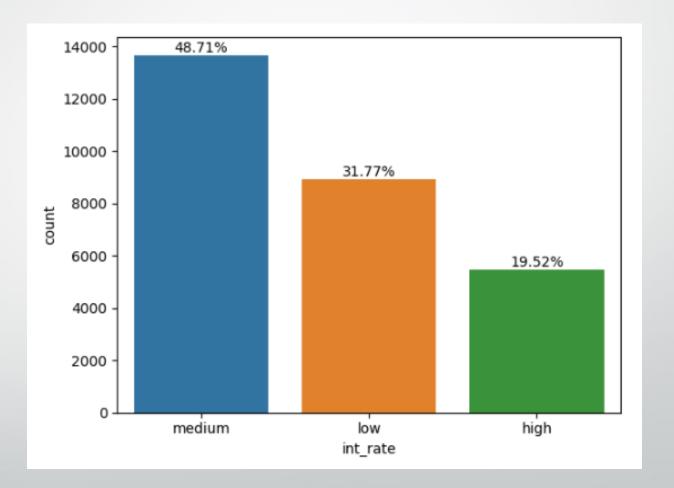
Loan Applicant's Annual Income

50.30% Of The Loan
Applicants Have Annual
Income In The Range Of
100000 To 150000



Loan Interest Rate

48.71% Of The Loans Are Given At Interest Rate
Between 10% To 15%



Loan Purpose Distribution

47.31% Debt Consolidation

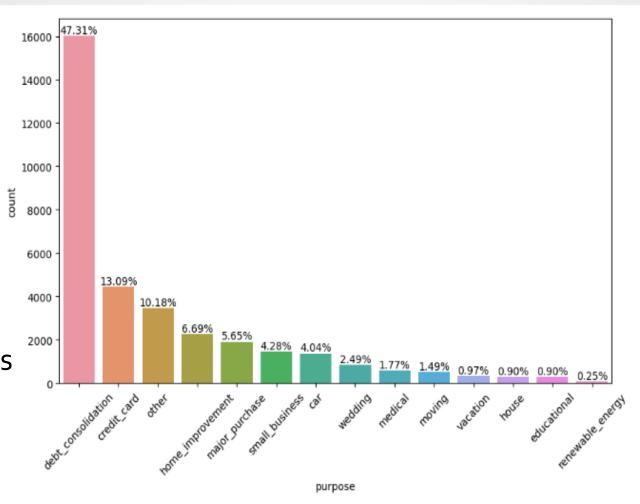
Loans

13.09% Credit Card Loans

6.69% Home Improvement

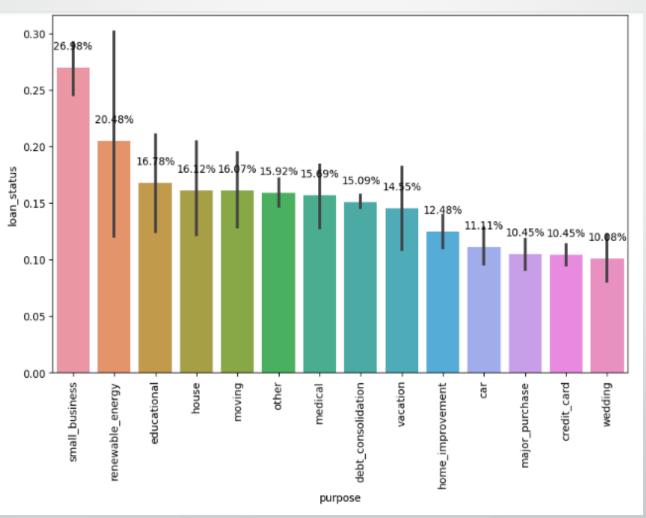
Loans

5.65% Major Purchase Loans



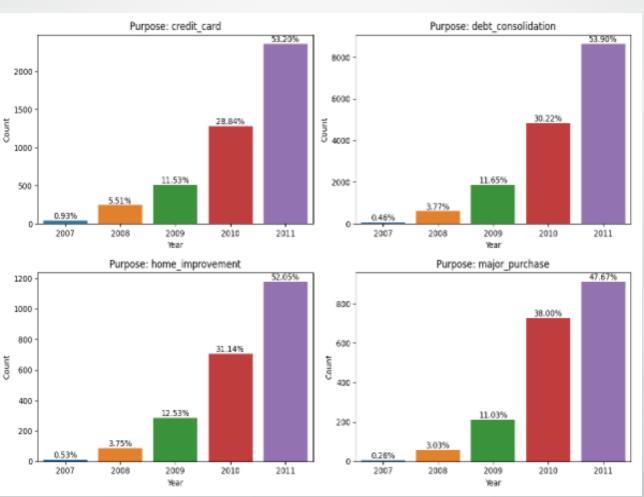
Default Rate Across Loan Purpose

- Small Business 26.98%
- Educational 20.48%
- House 16.12%
- Debt Consolidation 15.09%
- Credit Card 10.45%
- Major Purchase 10.45%



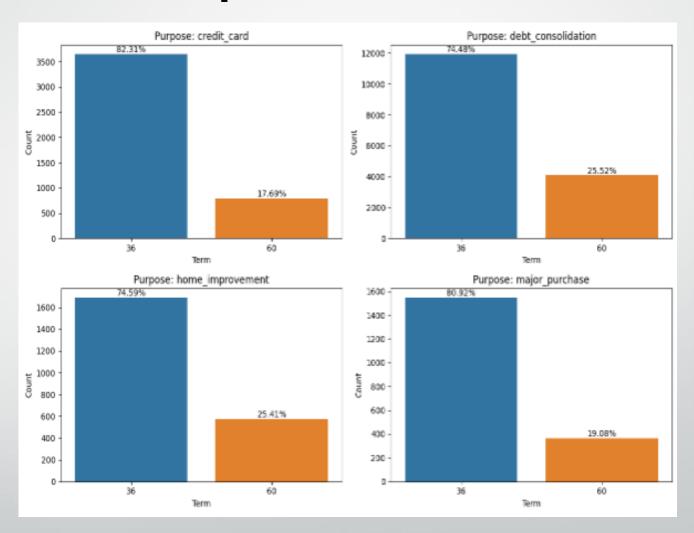
Top 4 Products Over Time

- There Is Increase In
 Home_Improvement Loans In
 Year 2010
- 340% More Debt
 Consolidation Loans Are
 Given Than Credit Card Loans

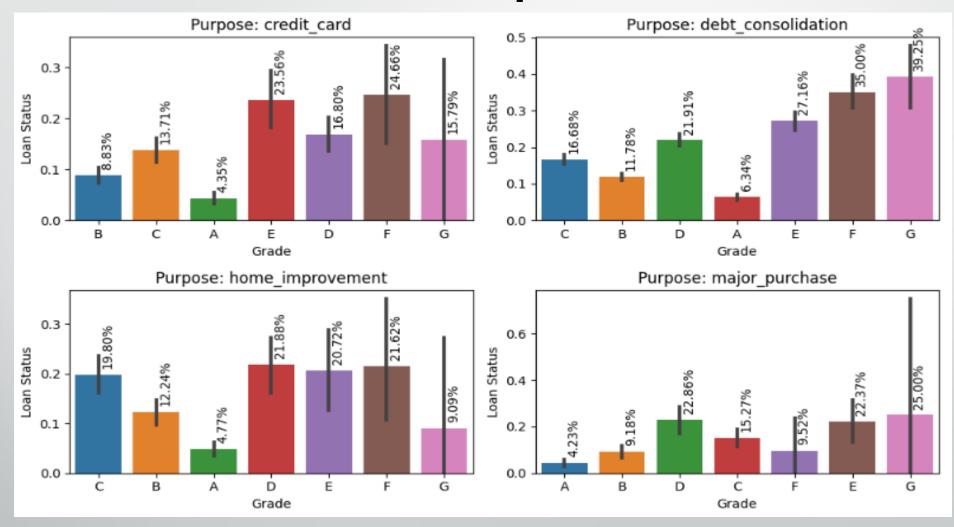


Term Distribution In Top 4 Products

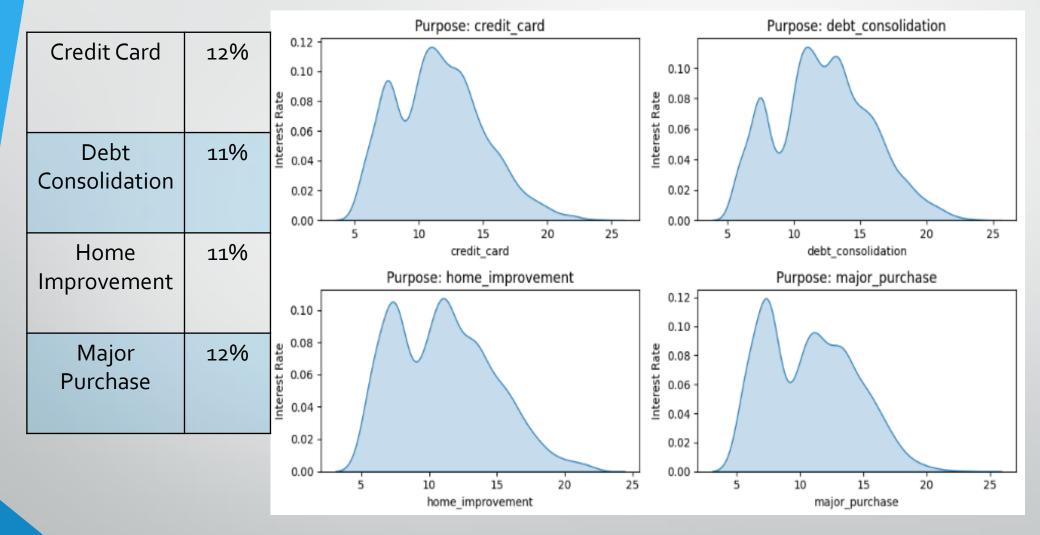
Across All Products Majorly 36 Month Term Loan Is Given



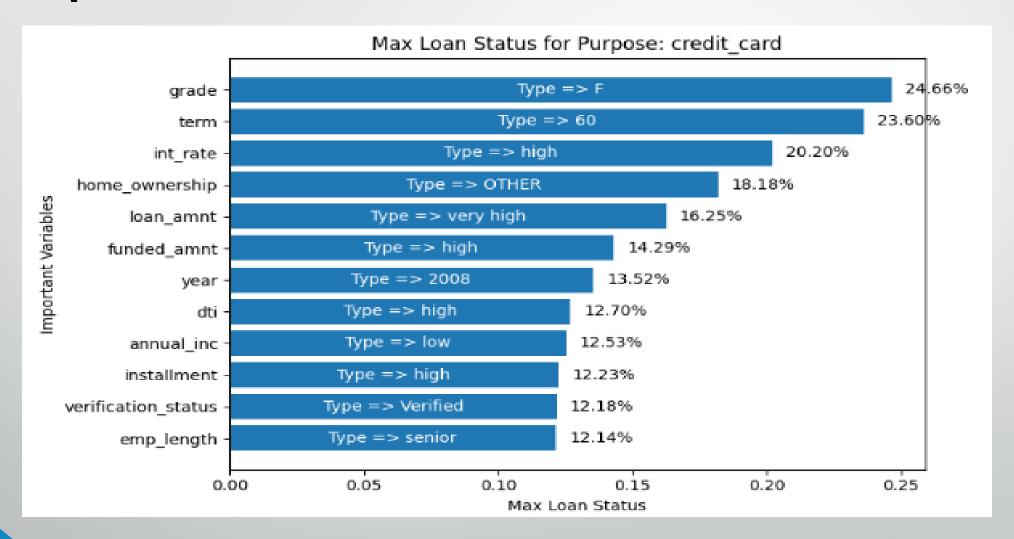
Grade Distribution In Top 4 Products



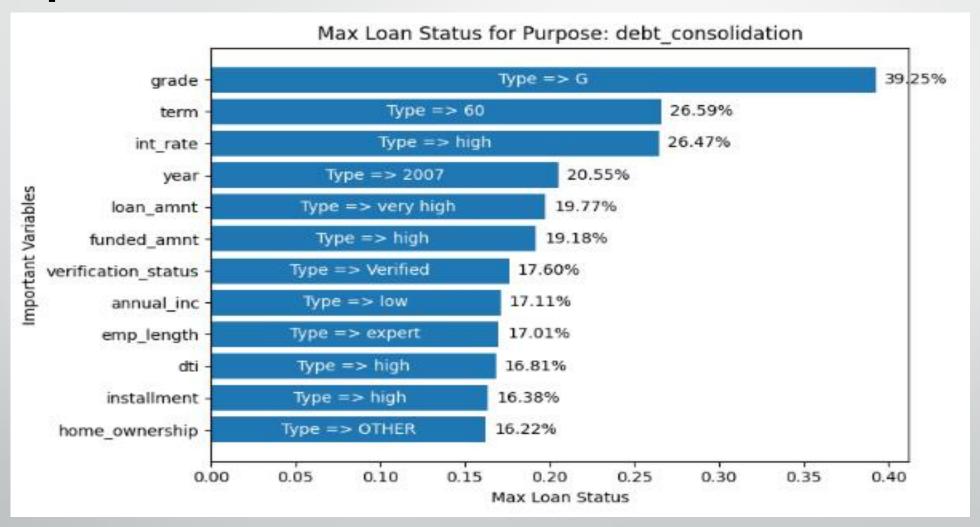
Interest Rate In Top 4 Products



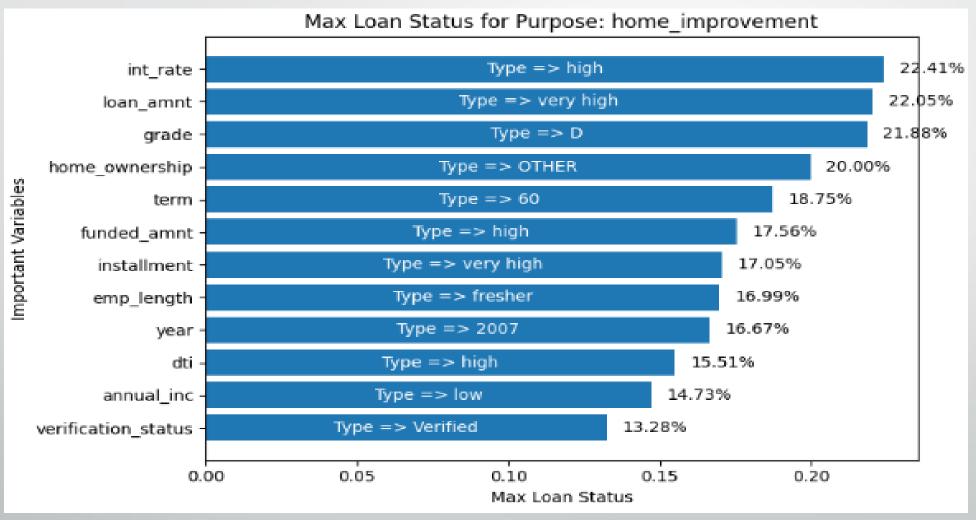
Important Variable: Credit Card



Important Variable: Debt Consolidation



Important Variable: Home Improvement



Important Variable : Major Purchase

