

Communicate Data Findings of Prosper Loan Data

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Dataset

Prosper Marketplace, Inc. is a California-based p2p lending industry. Prosper maintains a full public database of all loans issued through its marketplace on its website. This database and all market statistics can be accessed and queried for analysis of loan performance over time. An interface to run complex performance queries is supported and allows investors (and the public) to look into the performance of any subset of loans over whatever time period they choose. This data set contains 113,937 loans with 81 variables on each loan, including loan amount, borrower rate (or interest rate), current loan status, borrower income, and many others.

Summary of what I found

Most of the loan status are current. around 20000 are completed.

Most of the loan term lasts for 3 years and the least number of loan terms lasts for 1 year.

Most number of loans are between 0.1 and 0.38. Over 7000 loans have an APR of 0.38.

The people with the income between \$50K and \$75K are the ones get the loans the most. Followed by the ones whose income is between \$25K \$50K. The ones who don't get any loans are the ones who have no income.

Most of the people who apply for the loan are the ones who been in employment for the first 100 months. We can notice the exponential decrease in the number of people taking loans as their employment time increases.

Most of the people who apply for loan are employed. They are close to 70000.

Most of the people have a Prosper Rating of C which is an average rating and the Least amount of people have a Prosper Rating of AA, a high rating.

The Unemployed people are the ones who have a higher concentration above the median of Borrower's Rate. It can be notices that it is only the unemployed whose median almost touches 0.3. Other's median is around 0.2. If you look at the income range plot, you will notice that as the income

range decreases, the median goes up. It seems like the income range is a part of determining the rate the borrower will get.

Prosper Rating is a big determining factor in getting you a borrower's rate

People with income of more than 100,000 are the ones with the Highest Prosper Score. 50K to 75K are the one who get a rating of A, B or C the most and the prosper score gets worse as the income goes lower.

This graph clearly shows that the higher the income, the lower the borrower's rate will be. As for those who are not employed, the rate will be significantly higher than those who are employed.