Great Learning – Artificial Intelligence and Machine Learning

**Credit Risk Analysis**

Arunangshu Podder

Nikhil Gupta

Madhvi Gaur

Garima Bajpai

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# Business Problem

The main objective of this project is to:

(1) identify the factors that influence a loan getting repaid successfully or closed on account of default,

(2) based on those factors, build a model that can predict whether a borrower will eventually default on his loan or not, and

(3) build separate model that will, in the event of a default, predict the net impact of the default on the lender.

Contents:

**Exploratory Data Analysis**

In this paper, the dataset is derived from the Lending Club, available in [Kaggle](https://www.kaggle.com/wordsforthewise/lending-club), and containing more than 2 million loan records issued between the years 2007 and 2018. The dataset has 151 variables which include information such as borrower’s credit history, personal information (e.g. annual income, years of employment, zip code), loan information (e.g. description, type interest rates, grade), current loan status and, etc.

In the dataset, the missing values are filled in by means of median and mode imputation, meaningless attributes are deleted and finally we have retained (\*\*) attributes and table 1 shows some of the attributes being used for the experiment.

Table 1.

|  |  |  |  |
| --- | --- | --- | --- |
| **Variable Name** | **Data Type** | **Description** | **Statistics** |
| addr\_state | Categorical | The state provided by the borrower in the loan application. | # of Unique Values: 51  Most Occurring Value: CA |
| application\_type - | Categorical | Indicates whether the loan is an individual application or a joint application with two co-borrowers. | # of Unique Values: 2  Most Occurring Value: Individual |
| loan\_amnt - | Numeric | 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. | 25th percentile: 8000.00  50th percentile: 12000.00  75th percentile: 20000.00 |
| funded\_amnt - | Numeric | The total amount committed to that loan at that point in time. | 25th percentile: 8000.00  50th percentile: 12000.00  75th percentile: 20000.00 |
| Installment - | Numeric | The monthly payment owed by the borrower if the loan originates. | 25th percentile: 248.82  50th percentile: 375.43  75th percentile: 581.58 |
| int\_rate - | Numeric | Interest Rate on the loan. | 25th percentile: 9.75  50th percentile: 12.79  75th percentile: 16.02 |
| issue\_d - | Date | The month and year when the loan was funded. |  |
| grade | Categorical | LC assigned loan grade. | # of Unique Values: 7  Most Occurring Value: B |
| sub\_grade | Categorical | LC assigned loan subgrade. | # of Unique Values: 35  Most Occurring Value: C1 |
| verification\_status | Categorical | Indicates if income was verified by LC, not verified, or if the income source was verified. | # of Unique Values: 3  Most Occurring Value: Source Verified |
| term - | Categorical | The number of payments on the loan. Values are in months and can be either 36 or 60. | # of Unique Values: 2  Most Occurring Value: 36 months |
| purpose | Categorical | A category provided by the borrower for the loan request. | # of Unique Values: 14  Most Occurring Value: debt\_consolidation |
| annual\_inc | Numeric | The self-reported annual income provided by the borrower during registration. | 25th percentile: 45700.00  50% percentile: 65000.00  75% percentile: 90000.00 |
| emp\_length | Categorical | 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. | # of Unique Values: 11  Most Occurring Value: 10+ years |
| home\_ownership | Categorical | The home ownership status provided by the borrower during registration or obtained from the credit report. Our values are: RENT, OWN, MORTGAGE, OTHER | # of Unique Values: 6  Most Occurring Value: MORTGAGE |
| acc\_now\_delinq | Numeric | The number of accounts on which the borrower is now delinquent. | 25th percentile: 0  50th percentile: 0  75th percentile: 0 |
| dti | Numeric | A ratio calculated using the borrower’s total monthly debt payments on the total debt obligations, excluding mortgage and the requested LC loan, divided by the borrower’s self-reported monthly income. | 25th percentile: 11.79  50th percentile: 17.62  75th percentile: 24.08 |
| fico\_range\_high | Numeric | The upper boundary range the borrower’s FICO at loan origination belongs to. | 25th percentile: 674  50th percentile: 694  75th percentile: 714 |
| fico\_range\_low | Numeric | The lower boundary range the borrower’s FICO at loan origination belongs to. | 25th percentile: 670  50th percentile: 690  75th percentile: 710 |
| pub\_rec\_bankruptcies | Numeric | Number of public record bankruptcies. | 25th percentile: 0  50th percentile: 0  75th percentile: 0 |
| open\_acc | Numeric | The number of open credit lines in the borrower's credit file. | 25th percentile: 8  50th percentile: 11  75th percentile: 14 |
| total\_pymnt | Numeric | The total number of credit lines currently in the borrower's credit file. | 25th percentile: 6752.43  50th percentile: 12029.44  75th percentile: 20436.20 |

The target variable in the dataset is “loan\_status” which states the current status of the loan. It has values as:

* Current: Active Loan.
* Fully Paid: The full principal with interest rates is paid back.
* Charged Off: The borrower defaulted on the loan and the loan will never be paid back in full amount.
* In Grace Period: Payment of installment is delayed by 1 to 15 days.
* Late (16–30 days): Payment of installment is delayed by 16 to 30 days.
* Late (31–120 days): Payment of installment is delayed by 31 to 120 days.
* Default: Payment of installment is delayed by more than 120 days.

We can consider loans with status **Fully Paid** as “**Good Loan”** and loans having status **Default** and **Charged Off** as **“Bad Loan”**. Lending Club has observed that borrowers who do not pay their due installment for more than 30 days, have ultimately defaulted on their loans. Hence, we can consider loans with status **Late (31–120 days)** as “Bad Loan”. This leaves us with loans **Current**, **In Grace Period** and **Late (16–30 days)**, which we can consider as **“Current Loan”** since we cannot exactly say how these loans might end. Thus, we can summarize the different statuses in the dataset as

* Good loan: Fully Paid
* Bad Loan: Charged Off, Late (31–120 days), Default
* Current Loan: Current, In Grace Period, Late (16–30 days)

For our business problem, we consider only the loans with status as Good or Bad to build our model and then use the Current loans to predict which of these active loans are going to default. *Hence, we can keep our Current loans aside for now and focus only on the Good and Bad loans.*A picture containing card

Description automatically generated

After the above-mentioned operation, we found that there is a total of 1369566 records for Good and Bad loans of which approx 79% are marked as Good Loan and 21.33% are marked as Bad Loan. (Given in Figure 1)

Fig 1

The loans present in the dataset are issued between 2007 and 2018. The plot in Figure 2 shows that there has been as steady rise in the number of loans issued by Lending Club. Studies show that there has been a massive rise in the peer-to-peer lending platforms for micro financing over the recent years and the graph in Figure 2 proves the same.

A screenshot of a cell phone

Description automatically generatedFig 2

When a borrower applies for a loan, Lending Club gives 36-months and 60 months as the 2 options for loan tenure. When lending Club started in 2007, it started with only 36-month loan terms. From 2010 onwards, it introduced the 60-month loan tenure option (as shown in Figure 3).

A screenshot of a social media post

Description automatically generatedFig 3

Fig 4A screenshot of a cell phone

Description automatically generated

The plots in Figure 4 show that there is a big difference between the count of good and bad loans for 36-months loan tenures compared to that of 60-months. This shows that a loan has more probability to default if it has a longer tenure. This needs further investigation to check why loans with longer tenure are more prone to default.

Next, we look at loan amount. There are 3 variables in the dataset **“loan\_amnt”** (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), **“funded\_amnt”** (the total amount committed to that loan at that point in time) and **“funded\_amnt\_inv”** (the total amount committed by investors for that loan at that point in time).

A picture containing screenshot

Description automatically generatedFig 5

The line plots in Figure 5 show a linear relation between the 3 variables which means that the loan amount that the borrower is applying for is the same amount that the lender is committing to invest. Thus, we can pick any one of them and drop the other two.

A screenshot of a social media post

Description automatically generatedHere, picking **“funded\_amnt”** makes more sense since that is the amount on which the borrower will be paying the installments.

The box plot shows the mean of funded amount in bad loans is comparatively higher than good loans. This proves that loans with higher amounts are more prone to default. This makes more sense when we bring loan term into the equation. Borrowers who are looking for larger loan amounts will apply for higher loan tenures and hence might end up defaulting.

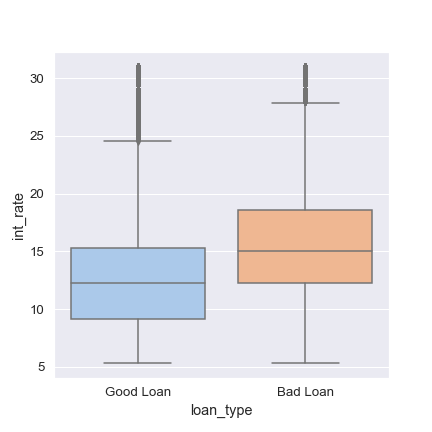
Next, we focus on variable for interest rate that the borrowers need to pay on their loans. From the box plot (figure 7), we find that the mean interest rate for defaulted loans to be much higher than for loans that ended successfully. This tells us loans with higher interest rate have a greater tendency to default.

Fig 7

The dataset provides us information about the installments that the borrower needs to pay once the loan is approved. We know that installments are dependent on factors such a loan amount/funded amount, interest rate and loan tenure.

Fig 8A screenshot of a cell phone

Description automatically generated

Figure 8 shows the scatter plot between installment and funded amount. It clearly shows a strong correlation between the two variables. Hence, we drop the variable for installment from our model.

In the dataset, we also find that there are 2 types of loan applications as evident from the feature **“application\_type”**. The pie plot in Figure 9, shows that more 97% are Individual applications whereas ~2% are logged as Joint Applications.

Fig 9A picture containing clock

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