Subtitle

Title

Author

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**Problem Statement**

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.

Through this project, we aim to help individual lenders or lending institutions minimize the risk of losing money due to bad loans.

Such loan default prediction and loss calculation scenarios are part of *Credit Risk Modelling* and form a classic data science problem. This also provides an opportunity to apply various supervised and unsupervised methodologies of data science to solve the business problem.

As a part of our prediction problem, we have built a model which on the basis of the current attributes of the dataset, will predict whether an ongoing loan will eventually default or not. If a loan defaults, we will use the second model, built as part of our prediction, which will predict how much the bank is expected to lose. We have expressed the same as Loss Given Default or LGD which is defined as the proportion of the total exposure when the borrower defaults.

We have built our business models using a conservative approach using rigorous evaluations since rejecting too many prospective borrowers can hamper the business.

**Data**

For this proposed project, we have looked into data published by various Peer to Peer (P2P) lending platforms since it is very difficult to obtain real bank data. P2P platforms, such as Prosper, Lending Club, Kiva, Fynanz provide various online services, thus enabling individuals and small businesses to get hassle-free loans from interested lenders. Amongst them, Lending Club is the largest P2P lending platform in the world.

The dataset released by Lending Club is currently available inKaggle (<https://www.kaggle.com/wordsforthewise/lending-club>), containing 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, etc. It also contains some variables which define how the settlement will be done for defaulted loans. Such information is a knowledge of the future and need to be handled accordingly.

**Process overview**

* Salient Features of the data:

As part of the business solving process, we did a thorough analysis of the dataset. [SSRN-id2529240] tells us about the lending process of Lending Club. A prospective borrower applies, reporting information about himself, his finances, and his need for a loan. Lending Club checks the borrower’s score and report, then assigns him a risk subgrade and a corresponding interest rate. If the borrower accepts the interest rate, the loan is listed on the Lending Club website. Prospective lenders can browse the loans listed on the website and agree to fund a portion of the loan. The loan is issued through a bank affiliated with Lending Club, so these loans are legally the same as traditional unsecured loans. However, Lending Club does not make loans until borrowers have agreed to fund the entirety of the loan. All issued loans are thus immediately securitized. Lending Club may choose to verify the borrower’s income while the loan is in funding but does not delay the listing of the loan to verify income. If the borrower’s income cannot be verified, the loan is removed from the site. If the loan becomes fully funded before the borrower’s income can be verified, the loan is issued without verification.

Some of the important variables in the dataset are listed in the below table.

|  |  |  |
| --- | --- | --- |
| **Variable Name** | **Data Type** | **Description** |
| addr\_state | Categorical | The state provided by the borrower in the loan application. |
| application\_type | Categorical | Indicates whether the loan is an individual application or a joint application with two co-borrowers. |
| 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. |
| funded\_amnt | Numeric | The total amount committed to that loan at that point in time. |
| installment | Numeric | The monthly payment owed by the borrower if the loan originates. |
| int\_rate | Numeric | Interest Rate on the loan. |
| issue\_d | Date | The month and year when the loan was funded. |
| grade | Categorical | LC assigned loan grade. |
| sub\_grade | Categorical | LC assigned loan subgrade. |
| verification\_status | Categorical | Indicates if income was verified by LC, not verified, or if the income source was verified. |
| term | Categorical | The number of payments on the loan. Values are in months and can be either 36 or 60. |
| purpose | Categorical | A category provided by the borrower for the loan request. |
| annual\_inc | Numeric | The self-reported annual income provided by the borrower during registration. |
| 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. |
| 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 |
| acc\_now\_delinq | Numeric | The number of accounts on which the borrower is now delinquent. |
| 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. |
| fico\_range\_high | Numeric | The upper boundary range the borrower’s FICO at loan origination belongs to. |
| fico\_range\_low | Numeric | The lower boundary range the borrower’s FICO at loan origination belongs to. |
| pub\_rec\_bankruptcies | Numeric | Number of public record bankruptcies. |
| open\_acc | Numeric | The number of open credit lines in the borrower's credit file. |
| total\_pymnt | Numeric | The total number of credit lines currently in the borrower's credit file. |

Table 1

loan\_status (current status of the loan)

The feature **“**loan\_status” has the following values as:

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

We find in figure 2, that our data comprises of approx. 19.6% of Charged Off loan samples which we can use for our model training purpose, and then use the same model on the currently active loan samples that have been marked as Bad Loans by our default classification model.

A screenshot of a social media post

Description automatically generatedFig 2

A screenshot of a cell phone

Description automatically generated

Also, the KDE plot in figure 3 shows the distribution of the variable “recoveries”. Here, we find the variable to be highly skewed and a large chunk of the data to be around 0.

Fig 3

* **issue\_d** (Interest Rate on the loan)

*The loans present in the dataset are issued between 2007 and 2018.* The plot in Figure 2 shows that there has been a steady rise in the number of loans issued by Lending Club. Studies show that there has been a massive rise in 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

* **term** (the tenure on the loan)

When a borrower applies for a loan, Lending Club gives 2 options for loan tenure, viz, 36-months and 60 months. From Figure 3, we find that *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

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Fig 4 A screenshot of a cell phone

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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.* However, this needs further investigation to check why loans with longer tenure are more prone to default.

* **loan\_amnt** (the listed amount of the loan applied for by the borrower)
* **funded\_amnt** (the total amount committed to that loan at that point in time)
* **funded\_amnt\_inv** (the total amount committed by investors for that loan at that point in time.)

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

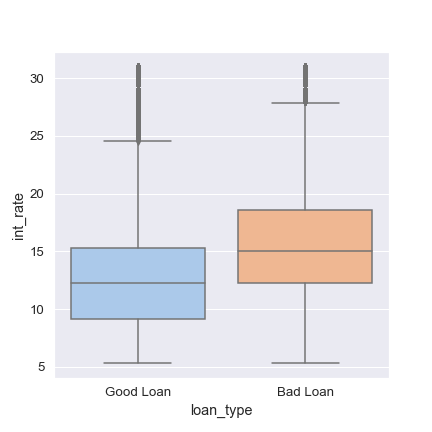
The line plots in figure 5 show a linear relation between the 3 variables which means that *the loan amount the borrower is applying for, is the same amount the lender is committing to invest.* Thus, we can pick any one of them and drop the other two.

A screenshot of a social media post

Description automatically generatedFig 6

Here, picking **“funded\_amnt”** makes more sense since it is the amount on which the borrower will be paying the installments. The box plot (figure 6) 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.*

* **int\_rate** (interest rate on the loan)

Next, we focus on the 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 that *loans with higher interest rate have a greater tendency to default.*

* **installments** (the monthly payment owed by the borrower if the loan originates)

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 as loan amount/funded amount, interest rate and loan tenure.

Fig 7

A screenshot of a cell phone

Description automatically generatedFig 8

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.

* **grade** (LC assigned loan grade)
* **sub\_grade** (LC assigned loan subgrade)

Now, we focus on the variables for grades. Lending Club has a system of assigning a grade and a sub-grade to every lender based on their personal details entered by them like annual income as well as on their credit report information like FICO scores.

A screenshot of a cell phone

Description automatically generatedFig 9

Grades are issued between A and G, A being the safest and G the riskiest. Figure 9 gives us a clear picture of the grades. It seems there is a big share of lenders falling in the category of B and C, which are considered to be comparatively safer (good and average credit history). A is given to the customers who have the best credit history and of course the count of such customers will be less. As we move to riskier grades, the count of accepted loans gradually decrease.

Each grade again has 5 more divisions or sub-grades. (shown in figure 10).

A screenshot of a cell phone

Description automatically generatedFig 10

Since sub-grade is a more specialized division of grade, we can keep sub-grade and drop off grade.

A picture containing table, large, holding, people

Description automatically generatedA screenshot of a cell phone

Description automatically generatedFig 11

Figure 11 shows the distribution of Good and Bad loans across different grades. However, since the count of loans with grade as B and C are higher, they clearly dominate the plot. Hence, we need to take a look at the plot in figure 12 which gives us the ratio of bad loans to the total number of loans. *This clearly shows that A is the safest grade whereas G is the riskiest.*

Fig 12

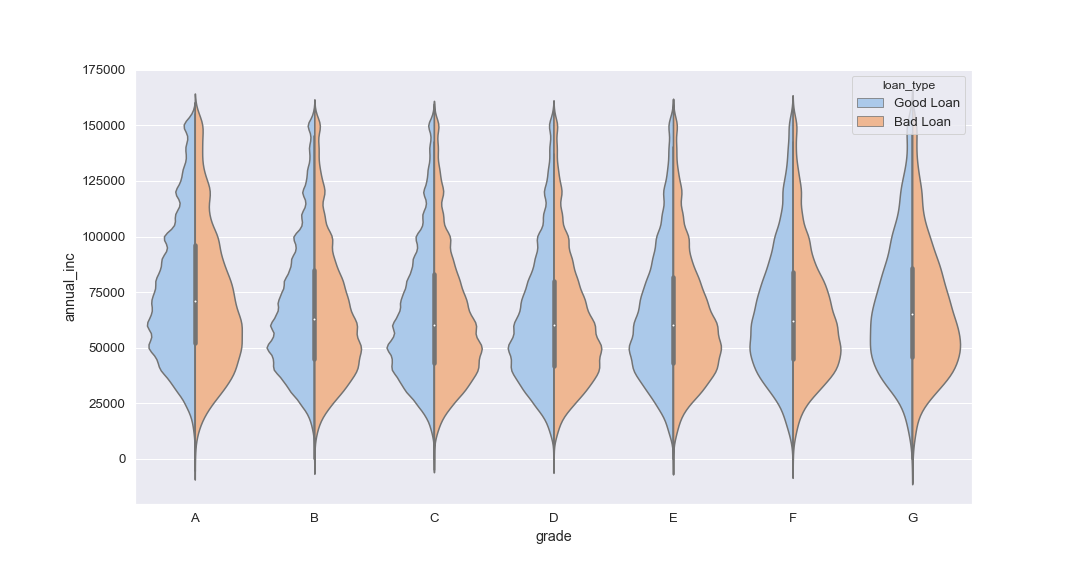
In figure 13, we also get to see the mean of funded amounts / loan amount applied increases as we move towards the riskier grades. We have already seen that higher the loan amount, higher is the probability for a loan to default.

A close up of a flag

Description automatically generatedFig 13

* **annual\_inc** (the self-reported annual income provided by the borrower during registration)

Earlier, we mentioned that the grading system of LC depends on the annual income of the borrower. However, the violin plot in figure 14 does not seem to show any such relation. Although we find that borrowers having high annual income are under grade A, but for the remaining grades, we don’t find any proper relation.

Fig 14

* **emp\_length** (employment length in years.)

So, we took a look at the variable for employment length. The different values under employment length ranges from <1 year (we consider it as 0) to 10+ years. From the peaks in the graph in figure 15, we find that people with more than 10 years of work experience tend to take more loan. Hence, the count of default is also high in that category. Apart from that, we find some peak for lenders having 1-year work experience, which indicate that there is a slight tendency for people who have just started career to default on their loans.

A picture containing water

Description automatically generated Fig 15

* **home\_ownership** (the home ownership status provided by the borrower during registration or obtained from the credit report)

Another variable under personal category is for home ownership, which states whether the borrower has a house or not. Here, we find that those with mortgages on their homes tend to take more loans (figure 16) as well as larger amounts of loans (figure 17).

A screenshot of a cell phone

Description automatically generated Fig 16

Fig17 A picture containing man

Description automatically generated

* **addr\_state** (the state provided by the borrower in the loan application)

Another variable under the personal information category in the dataset in the address variable which states the state where the user is residing. Fig 18 shows that most of the loans originate in the states of CA, TX, NY and FL whereas IA has the least number of borrowers. Because of the sheer number of loans originating from CA, the number of bad loans count is also high in CA. Thus, we can say that a new borrower coming from CA state has some probability to default.

A screenshot of a social media post

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Fig 18

Since, we have the variable annual income with us, we get an opportunity to look at the average annual income of the states given in the dataset. This might help us to understand why people from states CA, TX, NY and FL are taking so much loans, whereas states like ID, ND and IA are taking so less loans.

Figure 19 shows that states like DC, CT, MD, etc have the highest average loans. However, the count of loans from these states are quite less. So, we cannot say that there is a relation between annual income and state.

A picture containing implement, stationary, pencil

Description automatically generated

Fig 19

* **purpose** (a category provided by the borrower for the loan request)

In order to apply for a loan, lending club asks to state the purpose of the loan. So, we checked the purposes that produce the highest number of bad loans. From figure 20, we find that *most of the bad loans occur when taken for funding small businesses.*

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Fig 20

* **fico\_range\_high** (the upper boundary range of the borrower’s FICO at loan origination)
* **fico\_range\_low** (the lower boundary range of the borrower’s FICO at loan origination)

One important variable in the credit history of a borrower is FICO score. As per LC, based on this data, grades and sub-grades are assigned to the borrower’s loan application. In the dataset, we find 2 variables, one which states the lower range of the borrower’s FICO score and the A screenshot of a cell phone

Description automatically generatedother one that state the higher range of the score. To understand how the range differs, we plot the values on a graph (on the right). We find that the values follow a complete straight line, meaning that the difference between the 2 variables is always the same. Hence, we can drop any one of them.

Next, we check how FICO scores are affecting the grading system of LC. From the violin plot in figure 22, we find that the mean FICO score of grade A borrowers is much higher and the mean values decrease as we move towards riskier grades. This clearly proves that LC depends heavily on the FICO scores of the borrowers to assign grades.

A close up of a logo

Description automatically generatedFig 22

We also get to see how FICO score itself depends on the performance of the borrower as per his credit report. Some of the variables are listed below.

* # of charge offs within the last 12 months
* # of delinquent accounts over the last 24 months
* # of accounts currently past the 30 days due mark

A screenshot of a cell phone

Description automatically generatedFig 23

A screenshot of a cell phone

Description automatically generatedFig 24

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Description automatically generatedA picture containing screenshot, traveling, riding, runway

Description automatically generated Fig 25

* **dti** (ratio 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)

One of the important variables in the dataset that might impact the borrower’s credit history is DTI, which gives the ratio between the borrower’s total current monthly debt payment to his total reported monthly income. This can obviously impact his capability to repay the loan for which he is applying for.

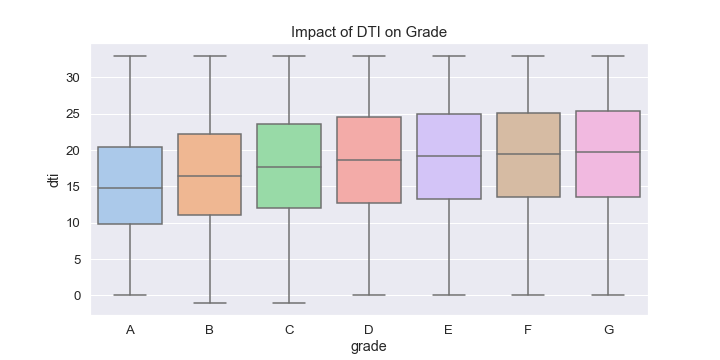
Figures 26 and 27 show the impact of DTI on the loans as well as LC’s grading system. They clearly show that the DTI is more for bad loans, and as we move towards riskier loans, the mean DTI increases.

Fig 27

* **pub\_rec\_bankruptcies** (Number of public record bankruptcies)

The dataset gives us information on the number of public bankruptcies that each borrower has. From the graph in figure 28, we find that there are 3 unique values for the number of bankruptcies.

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Description automatically generatedFig 28

* Data Pre-processing

As part of data pre-processing and clean up steps, we have dropped redundant variables like member\_id (unique LC assigned id for the borrower member), url (url for the LC page with listing data), zip\_code (first 3 numbers of the zip code provided by the borrower in the loan application), etc and also variables having more than 50% missing values. The remaining attributes with missing values, have been treated with different imputation techniques.

Apart from that, other data cleaning techniques like outlier handling and variable transformation methods have also been applied. Finally, in order to be able to use various distance-based machine learning algorithms, we have scaled the variables using z-score technique.

As explained in the previous sections, the project has a 2-fold solution.

* Default Prediction Model

Our first data model is a default prediction problem, where we made an attempt to analyze the various attributes of the dataset and predict whether an ongoing loan will default or not. Thus, it forms a binary classification problem, where our final machine learning model needs to predict a loan as good or bad. For this, we have the target variable “loan\_status” in the dataset.

We first select a sample from the dataset having only fully repaid loans and the ones that ended as default. On this sample, we perform various data cleaning and pre-processing steps to prepare it for the machine learning model. We observed that there is huge imbalance in the loans where we have a greater number of loans that ended successfully. Hence, we performed an oversampling technique to overcome this imbalance.

Next, we used various classification algorithms to assess their performance on the dataset, a summary of which is given in the below table.

* Loss Given Default Model

Our second model predicts the impact of a bad loan (Loss Given Default) on the lender. From the problem definition, we understand that this is a regression problem. For this, we used the attribute “recoveries” from the dataset. As per LC website, this variable defines all the recoveries that have been done post charge off. So, for model development and training purpose, we considered only those samples which had status as “Charged Off”. In production, all the loans that are predicted as bad loans will be passed through the second model to see how much the lender can expect to lose if the loan actually defaults. [13] defines LGD as,

where, total\_payment = total loan amount that has been recovered so far, and

total\_amount = total loan amount that should have been recovered.

Ideally, we should factor in the fees for recovery as well. Hence, the equation should have been,

However, it is difficult to predict the collection fees until the recovery operation has happened. Hence, we considered only the former equation for calculating LGD.

For the regression problem, we have used different regression algorithms.

**Detailed Walkthrough of the Solution**

* **Data Pre-processing**

Once the data was received, we found that it had lot of records which were summarizing the dataset and was not suitable for our modelling purpose. So, we dropped all such records.

There were few variables which did not make much sense and hence were dropped. Below are some such instances.

|  |  |  |
| --- | --- | --- |
| Feature Name | Feature Description | Reason for Dropping |
| acc\_now\_delinq | The number of accounts on which the borrower is now delinquent | Contains only a single value |
| collection\_recovery\_fee | post charge off collection fee | Considered a future variable as it will come into effect only the loan has charged off and recovery has been made |
| pymnt\_plan | Indicates if a payment plan has been put in place for the loan | Contains only a single value |
| hardship\_type | Describes the hardship plan offering | Only 0.01% of the samples were of type “hardship loans”. Hence, we didn’t consider these variables. |
| url | URL for the LC page with listing data | Unique id field |
| zip\_code | The first 3 numbers of the zip code provided by the borrower in the loan application | Didn’t provide any information |

Next, we looked at the missing content of each variable. Any variable having more than 50% values missing were dropped. For the rest, depending on the description of the variable, we have tried different imputation techniques like Zero Imputation, Median and Mode imputation as well as “Missing” indicator imputation techniques.

Imputation was performed keeping in mind that the process should not heavily distort the original distortion. Few examples are given below.

* Before Imputation:

A close up of a map

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* After Imputation:

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After the imputation process, we looked at the categorical variables like “term”, “sub\_grade”, “home\_ownership”, etc which were converted into numerical variables.

In order to be able to use distance-based machine learning algorithms, we have standardized the features of the dataset, i.e, brought the ranges of the features to a similar scale. This is done by putting the mean of the distribution at 0 and having a unit standard deviation. For this, we use the formula:

Standardization equation

Where,

X’ = standardized value

X = original value

μ = mean of the feature values

σ = SD of the feature values

Below are examples of few features before and after the standardization process. If we compare the ranges of the features, we find that after standardization, the ranges of the distributions are somewhat comparable with their means around 0.

Before Standardization:

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After Standardization:

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* **Classification Problem**

For our classification problem, the target variable was “loan\_status”. As mentioned earlier, the feature had values as:

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

We considered a loan with status **Fully Paid** as “**Good Loan”** and the one having status **Default** or **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 considered loans with status **Late (31–120 days)** as “Bad Loan”. This left us with loans **Current**, **In Grace Period** and **Late (16–30 days)**, which we considered as **“Current Loan”** since we cannot exactly say how these loans might end. Thus, we map 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 problem at hand, we considered only the loans with status as **Good** or **Bad** to build our model and then used the Current loans to predict which of these active loans are going to default. *Hence, we kept our Current loans aside for the time being and focused only on the Good and Bad loans.*

A picture containing card

Description automatically generatedFig 1

After the above-mentioned operation, we found that there was 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. (figure 1)

It was quite evident that there was a huge difference in the total number of good and bad loans. So, with this data in hand, whatever model we built would always have been bias towards the Good Loans. Hence, we needed some oversampling technique to remove this imbalance from our dataset.

Two possible over sampling techniques are Random Oversampling and Synthetic Minority Oversampling Technique (SMOTE). SMOTE creates a new sample by observing the closest samples in the feature space. As a result, the performance of SMOTE is too low. Hence, we decided to go with Random Oversampling technique which although just duplicates the minority class, gave us quick results. Also, we compared took 10% of the dataset and compared the performance of both SMOTE and Random OverSampler and found the performance to be more or less the same.

After oversampling, we found our dataset comprising of 2157478 samples.

Once, the dataset was ready, we divided the data keeping 15% for testing and remaining 85% for model training purpose and tried the below classification problems comparing their ROC curves and AUC scores.

* **Regression Problem**

**Model Evaluation**

* Default Prediction – Model Selection

As discussed in the above sections, we used multiple classification techniques and compared their performances. These models underwent rigorous hyper-tuning before training. Below is a list of the models and how

As mentioned earlier, we used several classification models for default prediction and compared their performances, which is summarized in the below table.

|  |  |
| --- | --- |
| **Model Name** | **Hyperparameter Values** |
| Logistic Regression | solver='sag'  C=1  penalty='l2'  multi\_class='auto'  max\_iter=10000 |
| Decision Tree | criterion='entropy'  min\_samples\_leaf=1  min\_samples\_split=2  max\_depth=9  max\_features='auto'  max\_leaf\_nodes=20 |
| Random Forest | criterion='entropy'  min\_samples\_leaf=1  min\_samples\_split=2  max\_depth=9  max\_features='auto'  max\_leaf\_nodes=21  n\_estimators=400 |
| K-Nearest Neighbors | n\_neighbors=22  algorithm='auto'  weights='distance'  p=1 |
| Support Vector Classifier | kernel='rbf'  gamma='auto'  class\_weight='balanced'  C=1000  max\_iter=10000 |

Also, below is a table of the performance metrics of the different models. We compared the AUC scores of the models to select the best one.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model Name** | **Accuracy** | **Precision** | **Recall** | **F1** | **AUC Score** |
| Logistic Regression | 0.9939 | 0.9925 | 0.9998 | 0.9961 | 0.999 |
| Support Vector Classifier | 0.9922 | 0.9918 | 0.9983 | 0.995 | 0.998 |
| Random Forest | 0.9446 | 0.9532 | 0.9356 | 0.9443 | 0.986 |
| K Nearest Neighbors | 0.9032 | 0.8943 | 0.9942 | 0.9416 | 0.964 |
| Decision Tree | 0.8895 | 0.923 | 0.8512 | 0.8856 | 0.915 |

Table 2

From the AUC scores in table (), we find Logistic Regression to give the best performance and hence, we selected Logistic Regression as our final algorithm for classifying good and bad loans.

* Default Prediction – Model Description

Logistic Regression (LR) is defined as a [statistical model](https://en.wikipedia.org/wiki/Statistical_model) that uses a [logistic function](https://en.wikipedia.org/wiki/Logistic_function) to model a [binary](https://en.wikipedia.org/wiki/Binary_variable) classification problem. Here, we are using it to classify between Good Loans which is numerically labelled as 1 and Bad Loans numerically labelled as 0.

Our LR model used an L2 approach for regularization in order to avoid overfitting. So, since we used L2 and also since we had a somewhat large dataset in our hand, we used “sag” as our solver.

We evaluated our model’s performance on different metrics like accuracy, precision, recall, and f1.

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Description automatically generatedThe accuracy of our model is 0.9939. This means that during testing about 99.39% of the predictions made by our classification model is correct.

In order to understand how the model performed for each class, we have created the confusion matrix for the model (as given in fig ). From this we can see that about approx. 98% of the bad loans were predicted correctly during testing of the model. Similarly, about 99.9% of the good loans are predicted correctly. Thus, we can say that we have built a pretty good classifier, which can predict both the good and bad loans equally well.

Further, in order to confirm the performance of our classification model, we look at its ROC score which comes at 0.999. A value so close to 1 means that we have an excellent classifier in place.

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We also looked at the important features in the model. Below is a table of the top 5 features deciding whether a loan will end up as a Good Loan or a Bad Loan.

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature Name** | **Feature Importance**  **(for Good Loans)** | **Feature Name** | **Feature Importance**  **(for Bad Loans)** |
| total\_rec\_prncp | 22.765821 | funded\_amnt | -20.220704 |
| last\_fico\_range\_high | 1.526253 | total\_rec\_int | -0.991154 |
| term | 0.501807 | hardship\_flag | -0.217384 |
| last\_pymnt\_d | 0.378949 | total\_rec\_late\_fee | -0.177522 |
| issue\_d | 0.220179 | total\_acc | -0.128451 |

We find that the above listed features play the most important role in deciding the final status of a loan. In that, total\_rec\_prncp and funded\_amnt is heavily dominating the other features. This created some suspicion that the features might not be valid for our scenario.

As per definition given by lending Club,

* total\_rec\_prncp - Principal received to date
* funded\_amnt - The total amount committed to that loan at that point in time

Since, we are trying to predict how the currently active loans of lending Club will end up, we need to know the loan amount as well as the principal received for the loan till date. Hence, these two features are very important for default prediction and we decided to keep them in our model.

* Loss Given Default Model

**Benchmark Comparison**

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At the onset of our project, we used Logistic Regression as our base model with an AUC score of 0.72.

We need to note that, while building our base model, the EDA process was going in parallel and hence not all dataset features were included in the model. Also, the features did not undergo any normalization and standardization techniques.

Now, with all feature engineering techniques complete and all the required features included, when we re-trained our model, we found the performance has considerably improved to an AUC score of 0.99.

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