Great Learning – Artificial Intelligence and Machine Learning

**Credit Risk Analysis**

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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.

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**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, 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. 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:

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 can consider 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 can consider loans with status **Late (31–120 days)** as a “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 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

When a borrower applies for a loan, Lending Club gives 36-months and 60 months as the 2 options for loan tenure. 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

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.* However, 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.

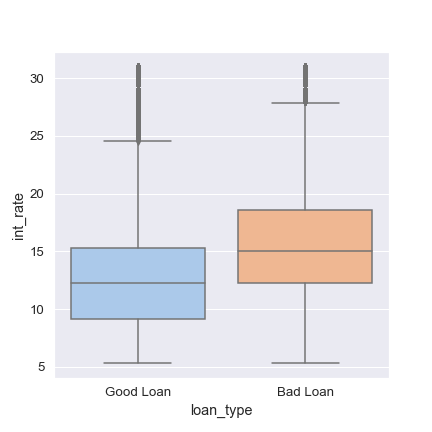
The box plot (figure 6) shows the mean of funded amount in bad loans is comparatively higher than good loans. *This proves that loans with higher amounts are more prone to default.*

Fig 6

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 *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 as 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.

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, the 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.*

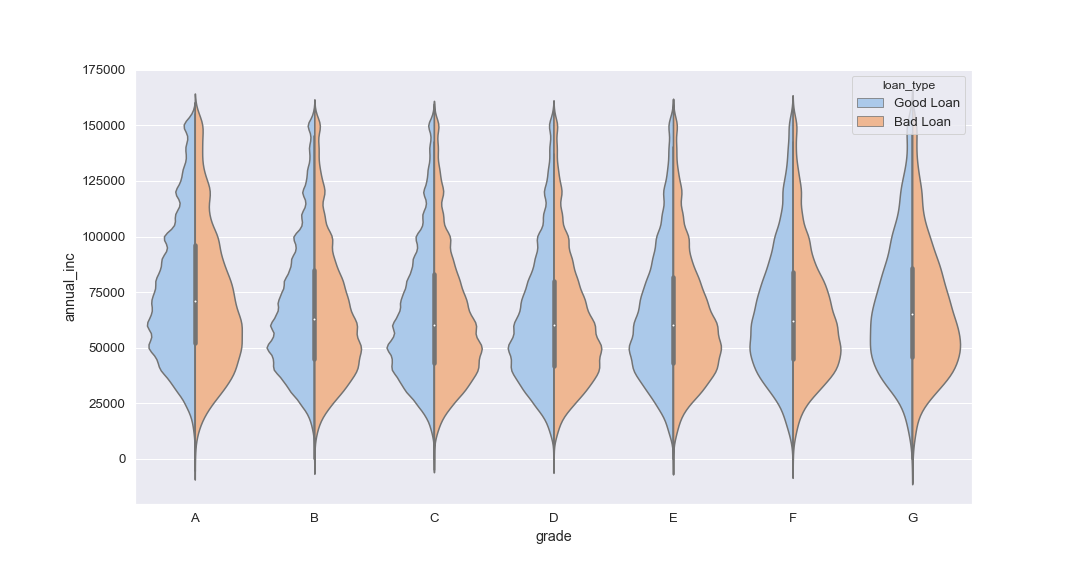
Fig 12

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

Earlier, we mentioned that the grading system of LC depends on the annual income of the borrower. However, the violin plot in figure 13 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 13

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 14, 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 14

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 15) as well as larger amounts of loans (figure 16).

A screenshot of a cell phone

Description automatically generatedFig 15

Fig16 A picture containing man

Description automatically generated

Another variable under the personal information category in the dataset in the address variable which states the state where the user is residing. Fig 17 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

Description automatically generated

Fig 17

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 18 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 18

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 19, we find that *most of the bad loans occur when taken for funding small businesses.*

A screenshot of a cell phone

Description automatically generatedA picture containing screenshot

Description automatically generatedFig 19

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 other 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 21, 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 21

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 22

A screenshot of a cell phone

Description automatically generatedFig 23

A picture containing screenshot

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

Description automatically generatedFig 24

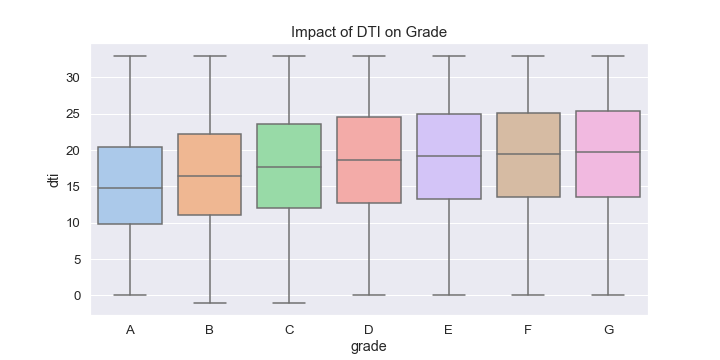
One of the important variables in the dataset that might impact the borrower’s credit history is DTI, which gives the ratio between the borrower’s total current monthly debt payment to his total reported monthly income. This can obviously impact his capability to repay the loan for which he is applying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

Fig 25

Figures 25 and 26 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 26

**Base Model and Architecture**

Finding out whether a borrower will eventually default on his loan or not is a classical binary problem, where the target variable will have data as “Good Loan” or “Bad Loan”. For this, we choose Logistic Regression as our base model and will eventually compare its performance with other classification problems. In the world of data science, logistic regression is used to model the probability of a certain class or event existing such as pass/fail, win/lose, alive/dead or healthy/sick. Logistic regression in its raw form uses a logistic function to model a binary dependent variable, although many more complex extensions exist.

A close up of a logo

Description automatically generatedFig

The basic workflow for this problem is given as below: (refer figure (\*\*))

* 1. Load the dataset.
  2. Data cleaning and pre-processing:
     + Drop unnecessary variables like “id” which is a LC assigned unique identifier for identifying the loans.
     + Handle columns that have lots of missing values.
     + Convert categorical variables into numerical variables.
     + Convert free text to numerical variables (if possible).
     + Convert other relevant variables to numerical ones, for example, convert issue\_d which is in the format of MM-YYYY to YYYY format, remove text using regular expression, for example, emp\_length has values like “<1 year”, “10+ years”, etc. We keep only the numbers and remove text to convert the categorical values into binned numerical format.
     + Scale the features (machine learning algorithms that are distance based require features to be normalized).
  3. Train the classifier:
     + Take 10% of the data as sample for developing the model using the below steps and once the code for the model is ready repeat the below steps.
     + Use any oversampling technique to remove the steep imbalance in the target variable.
     + Perform hyper-parameter tuning to get the best parameters for the model.
     + Perform cross validation to train the model.
     + Calculate model performance.
     + Remove features as per their importance if the model performance is poor and re-train the models.

**Early Results**

We perform a 3-fold cross-validation on our dataset, after which the performance of the classification model has been measured on few metrics as given below.

**Without Oversampling:-**

Model Performance:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Model Name** | **Accuracy** | **Precision** | **Recall** | **F1** |
| Logistic Regression | 0.91 | 0.90 | 0.99 | 0.94 |

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Description automatically generated

The confusion matrix from one of the k folds that we have performed during the training and the testing phase of our dataset. From this we find the below:

* Number of Bad Loans correctly classified = 2860
* Number of Bad Loans incorrectly classified = 1939
* Number of Good Loans correctly classified = 17985
* Number of Good Loans incorrectly classified = 42

**With Oversampling:-**

Model Performance:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Model Name** | **Accuracy** | **Precision** | **Recall** | **F1** |
| Logistic Regression | 0.87 | 0.82 | 0.95 | 0.88 |

A screenshot of a cell phone

Description automatically generated

The confusion matrix from one of the k folds that we have performed during the training and the testing phase of our dataset. From this we find the below:

* Number of Bad Loans correctly classified = 14255
* Number of Bad Loans incorrectly classified = 3719
* Number of Good Loans correctly classified = 17089
* Number of Good Loans incorrectly classified = 886

Although, the accuracy achieved through oversampling is lesser than that without oversampling, from the above confusion matrices, we find out that the model without oversampling does a very good job at identifying the good loans correctly but does a poor job at identifying the bad loans. This is because of the high imbalance between good and bad loans in our dataset. This is rectified to some extent by using an oversampling technique. For this experiment, we use SMOTE. The confusion matrix for the model with oversampling shows that the model’s biasness towards the good loans are removed to some extent.

We also compared the AUC scores for both the models and found them to be approx **0.9 (without oversampling)** and **0.94 (with oversampling)**. This means that although both the classifiers are doing fairly good jobs at classifying the good and bad loans in our binary classification problem, the one with oversampling does a slight better job.

**Hence, we decide to use the model with oversampling performed as the benchmark for our future experiments with our classification algorithms.**

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Please refer the table (\*\*) in the appendix section at the end of this report for the important features as our logistic model. We find that *the features* ***“total\_il\_high\_credit\_limit”****,* ***“open\_acc”*** *and* ***“total\_bc\_limit”*** *dominate other features for predicting the good loans.* Similarly, ***“recoveries”*** *and* ***“collection\_recovery\_fee”*** *play important roles for predicting bad loans.* Same can be visualised from the figures (\*\*) and (\*\*).

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A screenshot of a cell phone

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**Appendix**

Table

|  |  |  |  |
| --- | --- | --- | --- |
| **Features important for predicting Good Loans** | | **Features important for predicting Bad Loans** | |
| **Feature Name** | **Feature Importance** | **Feature Name** | **Feature Importance** |
| total\_il\_high\_credit\_limit | 0.522430 | recoveries | 22.918012 |
| open\_acc | 0.495392 | collection\_recovery\_fee | 15.776402 |
| total\_bc\_limit | 0.389185 | issue\_d | 0.583141 |
| mort\_acc | 0.163620 | num\_sats | 0.539304 |
| num\_rev\_accts | 0.162656 | total\_bal\_ex\_mort | 0.414019 |
| fico\_range\_high | 0.142460 | term | 0.375247 |
| initial\_list\_status | 0.111131 | dti | 0.293792 |
| revol\_util | 0.100188 | bc\_open\_to\_buy | 0.262896 |
| total\_rev\_hi\_lim | 0.093454 | int\_rate | 0.162867 |
| num\_op\_rev\_tl | 0.090211 | funded\_amnt | 0.138530 |
| mths\_since\_recent\_bc | 0.086910 | num\_actv\_rev\_tl | 0.130794 |
| num\_il\_tl | 0.076906 | total\_acc | 0.113265 |
| tot\_hi\_cred\_lim | 0.074611 | home\_ownership | 0.095661 |
| tot\_hi\_cred\_lim | 0.055524 | num\_actv\_bc\_tl | 0.081566 |
| avg\_cur\_bal | 0.053921 | num\_bc\_sats | 0.066821 |
| tot\_coll\_amt | 0.048909 | bc\_util | 0.060222 |
| delinq\_2yrs | 0.042585 | inq\_last\_6mths | 0.054151 |
| revol\_bal | 0.041064 | inq\_last\_12m | 0.053735 |
| verification\_status\_joint | 0.039266 | sub\_grade | 0.043499 |
| mths\_since\_last\_delinq | 0.037211 | emp\_length | 0.043469 |
| annual\_inc\_joint | 0.032134 | pub\_rec | 0.040878 |
| mths\_since\_recent\_inq | 0.031792 | percent\_bc\_gt\_75 | 0.040837 |
| num\_rev\_tl\_bal\_gt\_0 | 0.030789 | pct\_tl\_nvr\_dlq | 0.028898 |
| pub\_rec\_bankruptcies | 0.030264 | mo\_sin\_old\_il\_acct | 0.023082 |
| tax\_liens | 0.029010 | dti\_joint | 0.022444 |
| num\_bc\_tl | 0.029010 | delinq\_amnt | 0.021964 |
| mo\_sin\_old\_rev\_tl\_op | 0.023551 | verification\_status | 0.016012 |
| num\_tl\_90g\_dpd\_24m | 0.022243 | purpose | 0.009484 |
| annual\_inc | 0.022203 | mo\_sin\_rcnt\_rev\_tl\_op | 0.009025 |
| acc\_open\_past\_24mths | 0.016782 | chargeoff\_within\_12\_mths | 0.000618 |
| mo\_sin\_rcnt\_tl | 0.014776 |  |  |
| num\_tl\_30dpd | 0.014513 |  |  |
| collections\_12\_mths\_ex\_med | 0.008747 |  |  |
| addr\_state | 0.004110 |  |  |