BlockchainL Project Status Notebook Template
Decentralized Finance

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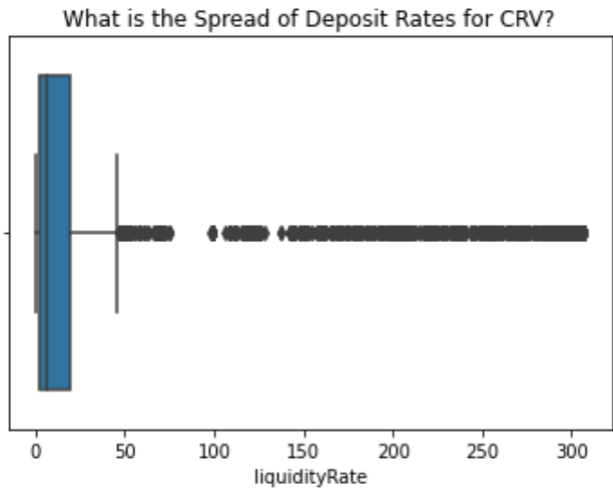30 September 2021

Contents

Weekly Work Summary

- RCS ID: cammic

- Project Name: Blockchain

- This week, I have been working on gathering additional data to supplement the existing data. I have created two additional data sets.

- The first is called rates.csv. This file contains the borrow and deposit rates for each currency at each timestamp that they were updated.

- The second data set is called tokens.csv. This data set has each token as a row, and the columns describe various attributes about those tokens.

- After collecting the data, I performed some basic analysis on these new datasets.

- The notebook where I collected the data and performed analysis is titled GetReserveInfo.ipynb, and can be found on the github under ReferenceNotebooks.

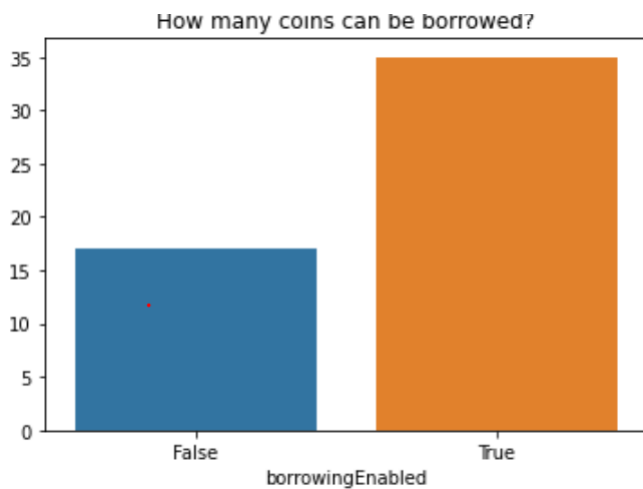## Personal Contribution

All contributions were completed by me.

Discussion of Primary Findings

For the first data set, I wanted to see what the spread of deposit rates looked like for a particular currency. I subsetted the data for the token CRV, and plotted a boxplot to show the spread in deposit rate.
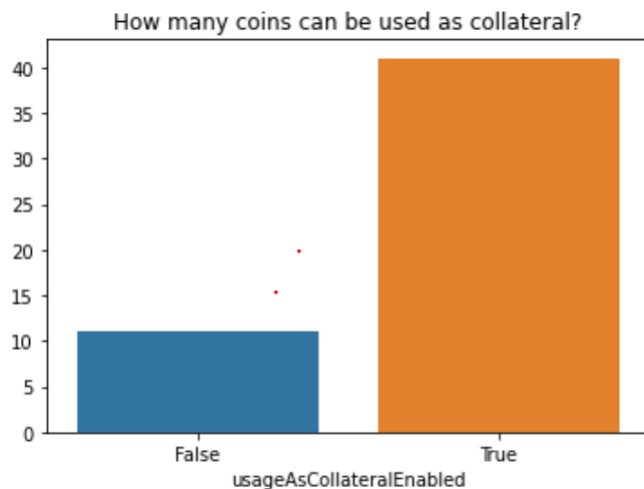
What is the Spread of Deposit Rates for CRV?

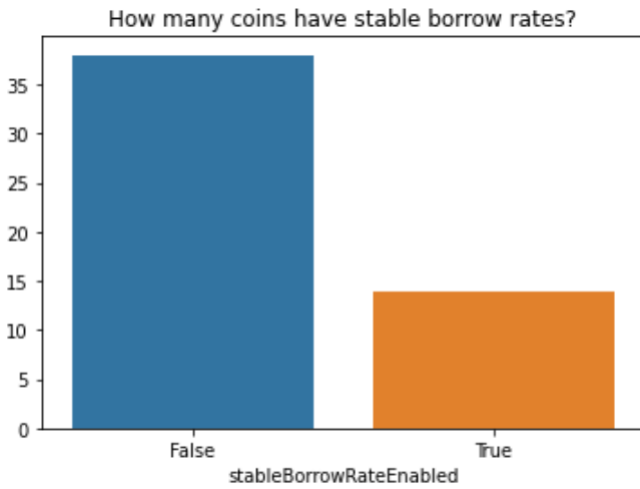We can see that most of the time, the deposit rates stay low, but have many extreme outliers.

Next, I looked at the tokens.csv dataset. First, I wanted to investigate the usages for the tokens in the dataset. I made barplots to show the number of tokens that can be used in borrows, used as collateral, and can be borrowed with a stable borrow rate.

How many coins can be borrowed?

The majority of coins can be borrowed.
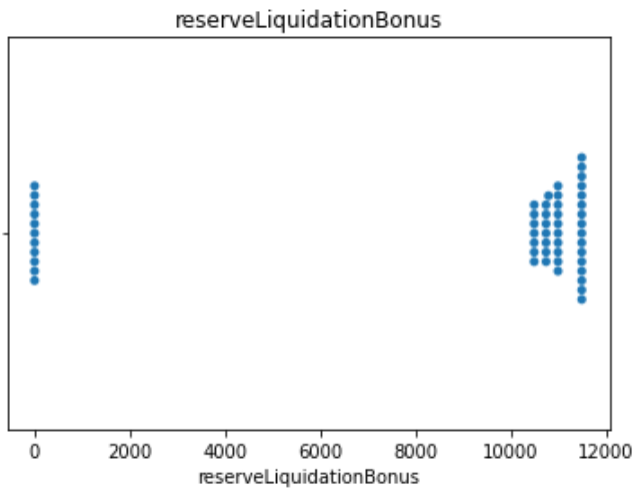

How many coins can be used as collateral?
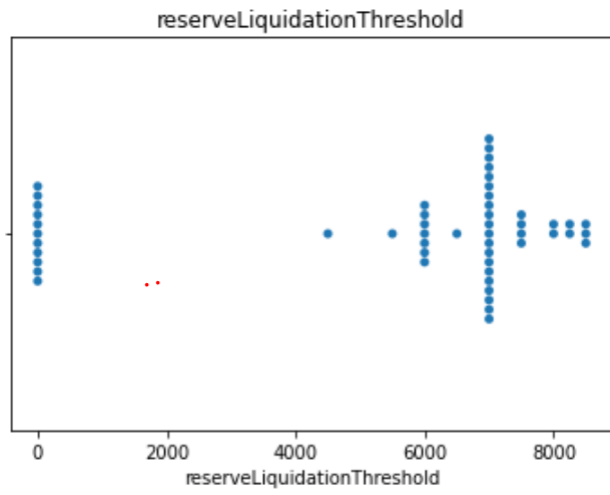
Most coins can also be used as collateral.

However, a minority of coins have stable borrow rates.

Finally, I investigated the continuous columns in the dataset, reserveLiquidationBonus and reserveLiquidationThreshold.

Many coins have bonus of 0,while the rest have bonuses between 10,000 and 12,000.

reserveLiquidationThreshold

Many coins have threshold of 0, while the rest range from about 6000 to 10,000.