

The New Economy: Cryptocurrencies

Data Science For All: Team 22



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3 1 8 7 2 2

Team 22



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Wealth Gap in *PERSPECTIVE*



1%

49%

8.3%

The top 1% have grabbed 38% of all additional wealth accumulated since the mid-1990s, while the bottom 50% captured just 2%.

49% of both Hispanics & African Americans U.S adults don't currently own individual stocks, mutual funds, bonds, ETFs, Cryptocurrency or real estate.

It is estimated that 27 million people, 8.3% of America's total population, currently own cryptocurrency.

Poverty in *CONTEXT*

01

In 2020, the average wealth gap in US population is .48 (Gini Coefficient)

02

The Family's 2020 poverty threshold(below) is \$31,661

03

11.3% of the total US population lived below the poverty threshold in 2020.

04

In 2020, 37.25 million Americans lived below the poverty line in the US





PROBLEM

Decrease the wealth gap in America by providing minorities with a data science tool that aids in predicting future movements of cryptocurrencies with accompanying resources to educate on the potential of blockchain technology.



Blockchain Technology



Creation

2008

Applications

Limitless Uses

Global GDP

20 Billion or around
0.025% is held in the
blockchain

Methodology

Dataset

- Kaggle Crypto Forecasting Dataset
- Scraped Web for additional data
 - Coinbase
 - CoinMarketCap
 - Blockchain

Tools

- Pandas
- Python
- Jupyter/Colab
- Arima Predictive Model
- Tableau



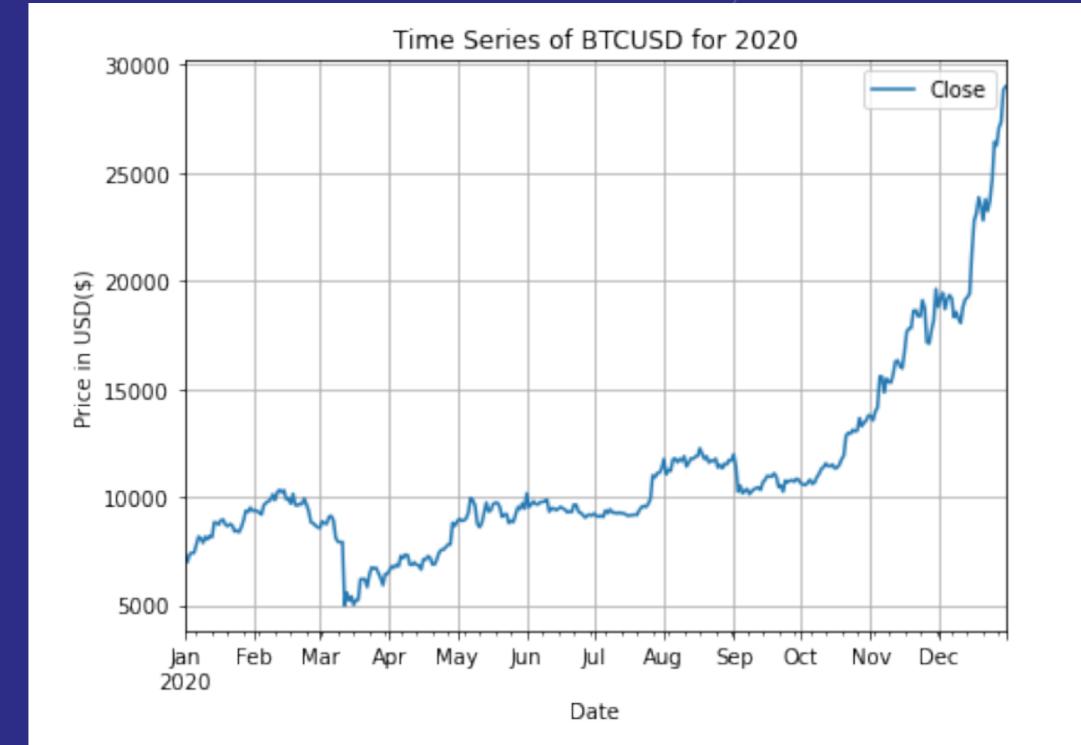
Cryptocurrencies

Asset Name	Symbol	Icon
Binance Coin	BNB	
Bitcoin	BTC	
Bitcoin Cash	BCH	
Ethereum	ETH	
Litecoin	LTC	



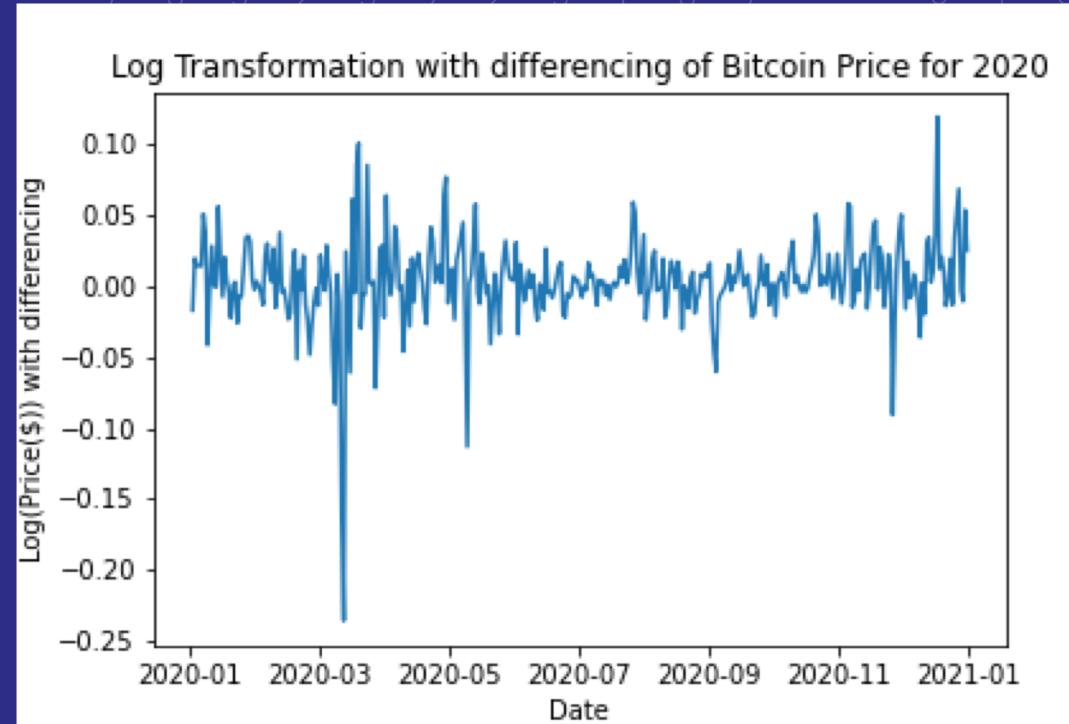
Initial plot of BTC Close prices for the year 2020

- BTC has an upward trend & is very volatile
- Using the ADF test we noticed that the time series is not stationary



Making the data stationary

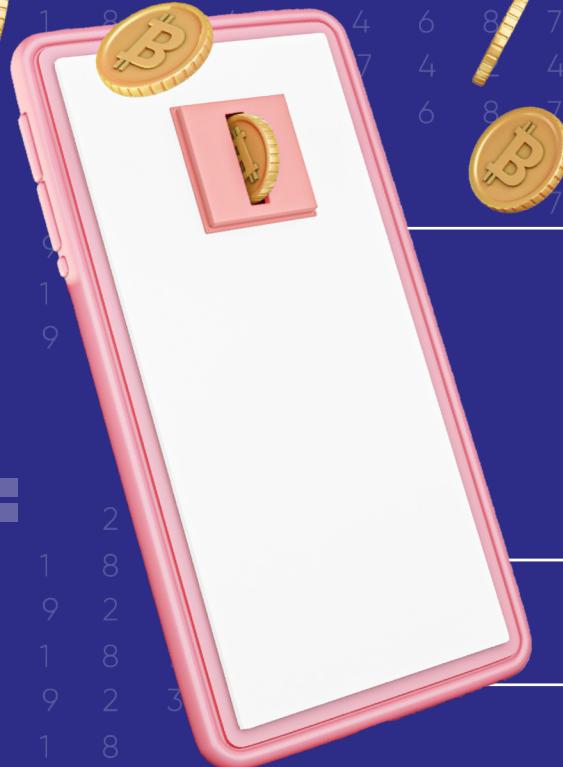
- To make the data stationary, we applied a log transformation and a differencing



Model Results

Using the RMSE, the model's accuracy is of 97% in predicting the future price of BTC





Dashboard

Metrics to provide educational guidance



“Our Investments should be
consistent with our values”

Hendrith Vanlon Smith Jr.



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