

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Cryptocurrency Analysis

About me

Name: Vidya Jadhav

• Education : BE (Electronics and Communication)

- Why Data Science?:
- In this field there are variety of skills is included
- It opens door for every domain
- In every project you will face new challenges
- Research and development



Agenda

- Problem statement
- What is Cryptocurrency?
- Selected Currencies for analysis
- Web Scraping
 - Why web scraping is important?
 - Websites
 - Library Used
 - Data Cleaning
 - Final Dataset Summary
- Exploratory Data Analysis
 - Univariate Analysis
 - Bivariate Analysis
 - Multivariate Analysis
- Conclusion



Problem Statement

Exploring different currencies and analyzing how efficient they are Comparing their prices with Bitcoin and Etherium



What is Cryptocurrency

- Any form of currency that is available virtually or digitally
- <u>Satoshi Nakamoto</u> introduced world first bitcoin on paper in a 2008 paper
- We can use cryptocurrencies to buy goods, gift cards, pay bills, make a donation and exchange it into cards
- Pros:
 - No Bank Fees
 - Anonymity
 - Accessibility



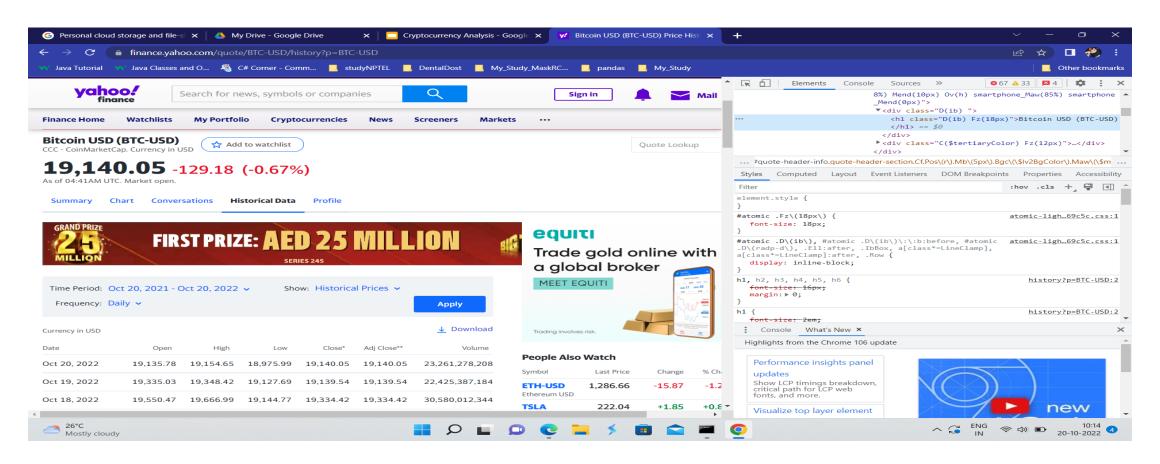


Selected Currencies for Analysis

- Bitcoin
- Ethereum
- Wrapped Bitcoin
- Lido Staked Ethereum
- Bitcoin Binance Chain Evolution Proposal 2(BEP2)
- Huobi Bitcoin
- yearn.finance
- Tether Gold
- renBTC



Website:





Library Used:

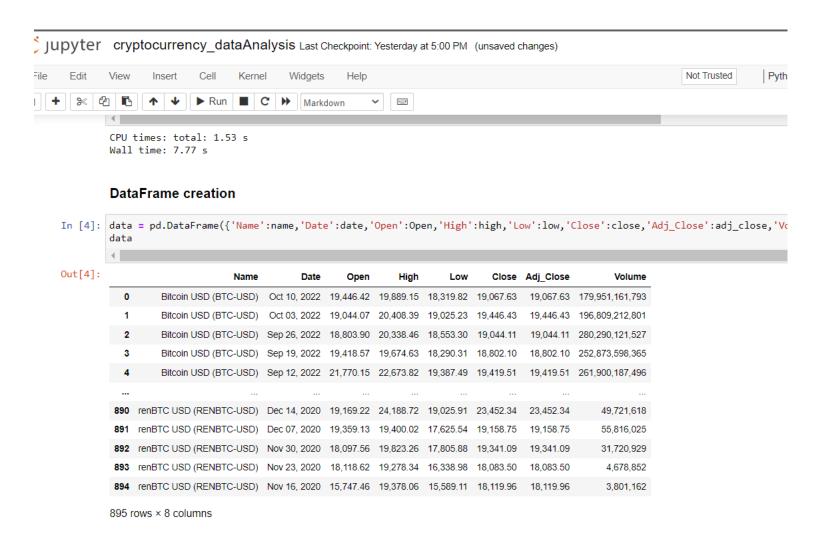
- requests
- BeautifulSoup
- pandas
- numpy
- matplotlib
- seaborn



Data Cleaning:

Raw Data:

- Date Column
- Comma
- Data type

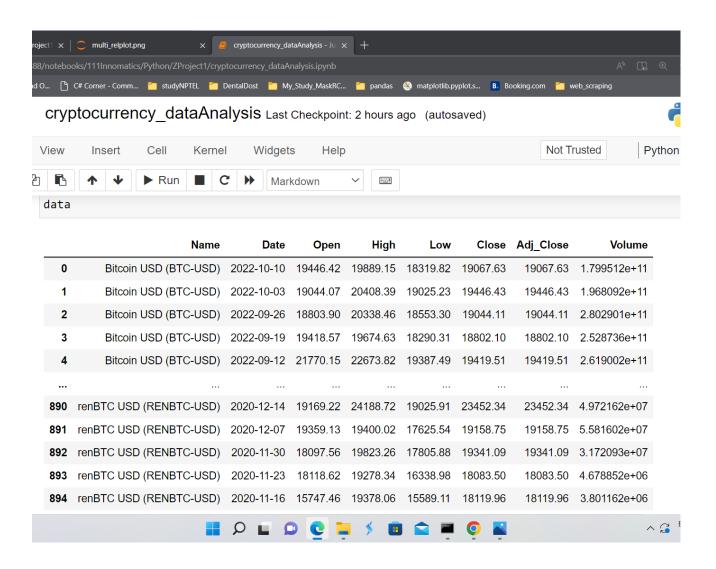




Data Cleaning:

Final Data Summary

- Shape 895X8
- Column description





Exploratory Data Analysis (EDA)

• Definition :

an approach to analyse the data using statistical and graphical techniques

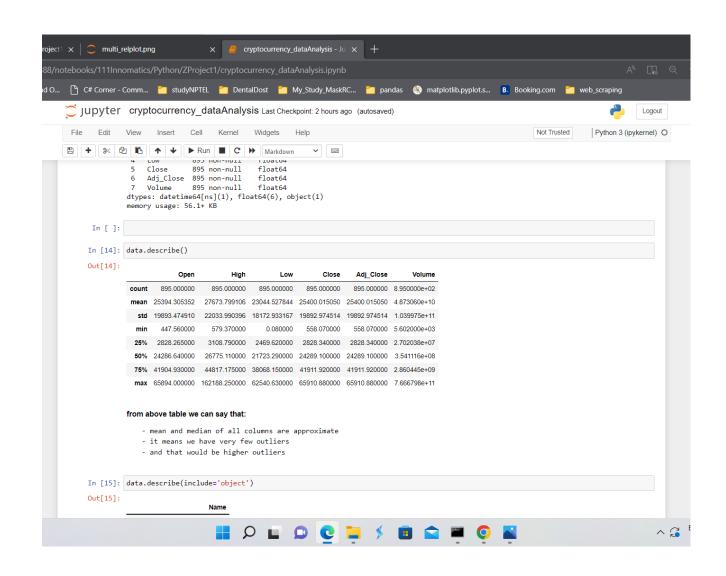
• Types:

- Univariate Analysis
- Bivariate Analysis
- Multivariate Analysis



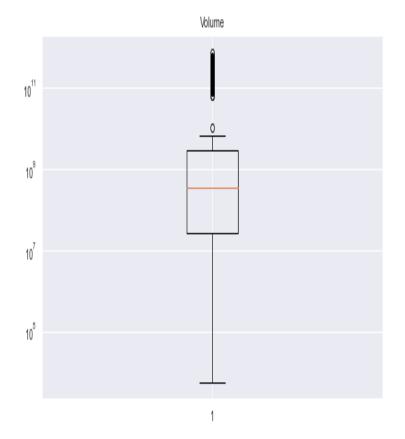
Univariate Analysis

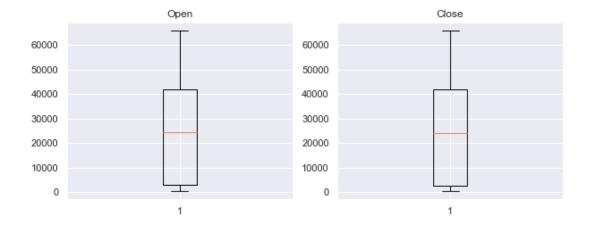
- Higher outliers are present
- Standard Deviation is high so data spread out is more
- Mean and median
- Higher outliers present in High and Volume column

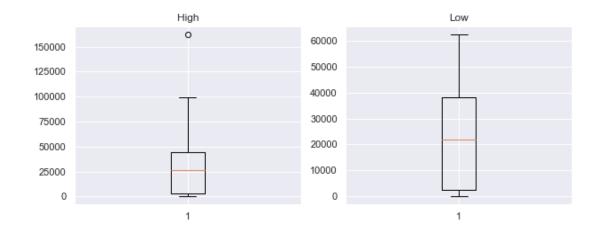




Univariate Analysis



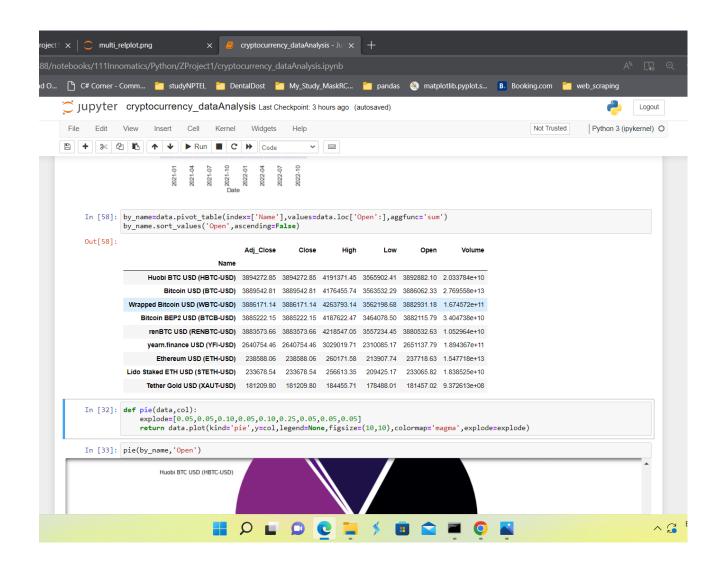






Bivariate Analysis

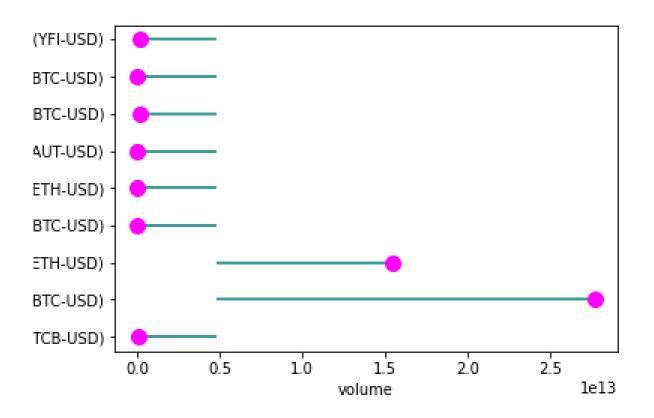
- There are 5 coins having open price above 35000\$
- Tether Gold price is less than 2000\$
- Most trading is happened in Bitcoin and Ethereum





Bivariate Analysis

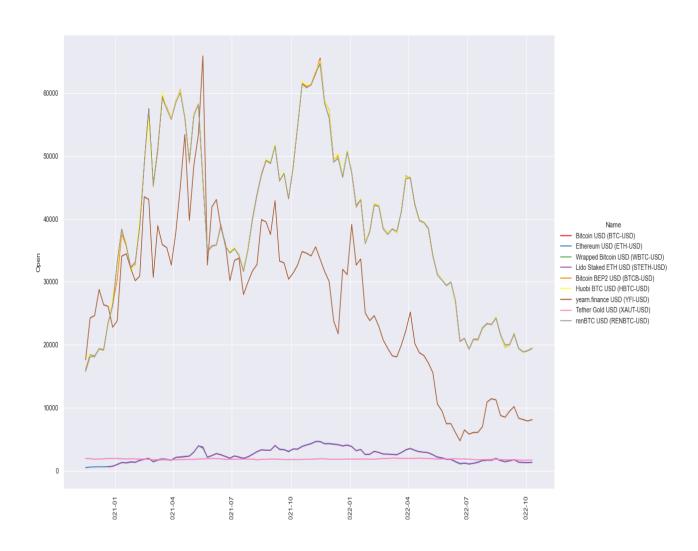
 We can observe that Bitcoin and Ethereum are the most famous coins for trading





Multivariate Analysis

- Here we are observing open prices for each coin over the time period of November 2020 to October 2022
- Volatile nature and Non volatile nature
- Coins lies under volatile nature
- Coins lies under non volatile nature





Conclusion

- Ethereum, Lido and Tether Gold are non-volatile coins
- If you are interested in stable and safe investments then you should prefer non-volatile coins.
- We can observe that renBTC and Huobi are also good investments
- You should keep patience when you are investing volatile coins



THANK YOU



