CryptoDataScientist

Group- Crypto Data Scientist

Write a description of the scope

How news affects the price of crypto currencies and if news have any influence in investors confidence?

• Looking at the top 5 crypto products by market cap

• Looking at the differences in price and volume to measure any changes

• Measuring volatility to measure investors confidence

• Using social media to measure user sentiment

API’s

https://newsapi.org/ --- All news related API’s

https://coinmarketcap.com/api/ --- Crypto Price

https://developer.twitter.com/en/apply-for-access - Measure Sentiment (?)

Deliverables.

Part 1 – Gathering Data

• Create a data frame and filter 5 crypto currencies based on market cap

• Gather volume data of the last 5 years of crypto data

• Gather price data of the last 5 years in crypto data

• Gather data on new headlines related to crypto and get a daily count in the US

• Gather data of keywords crypto related in twitter

Part 2 – Interpreting Data

• Looking at change in volume in price based on the change of the Daily / Monthly / Yearly average

• Measuring Volatility using the standard deviation . Daily/ Monthly/ Yearly

• Measuring Sentiment by analyzing positive and negative twits Daily/ Monthly/ Yearly

• Track the 10 highest counts in news regards of crypto check the volatility and if it differs from the average and check if price is affected positive or negative by news.

• Which news is the most common among all data sets

Part 3 – Visualization.

• Representing deviations in a time series line graph and drawing three averages

• Represent a count of news in a time series line graph and draw three averages

• Represent the market capitalization of 5 crypto currencies in a heat map