



# Crypto Currency

## **PREPARED FOR**

Dr. Patrick Saoud

## **PREPARED BY**

Ahmed Aljmiyai

Fatemah Alshaikh

Jennan Sawayan

## **Problem Statement**

You can not read the daily news without encountering an article about Crypto Currency. Most people are intrigued to invest, but they don't acquire the proper financial knowledge to make decisions by themselves, they most likely require the help of domain

experts. Hence, we're developing a search engine to analyze the sentiment of crypto currency from Reddit, that enables the interested traders to search for the Crypto Currency of their choice and get an understanding of where the currency is going at the moment.

### Questions:

- Is it possible to give investors an idea about each currency?
- Can we do sentiment analysis on reddit posts to foresee the future of its value in the market?

## Data Description

Reddit is an online platform that attracts a huge community of domain experts from various domains, especially the community of young traders in the financial market. Hence, we will be using Reddit API to get subreddits related to Cryptocurrency. The API offers the following information about each subreddit:

- Post Title
- Score
- ID
- Subreddit name
- URL
- Number of comments
- Body of posts
- Posts Timestamp

## Tools

1. Jupyter Notebook
2. Python Libraries: Pandas, NumPy, matplotlib, seaborn, sklearn, Praw, NLTK, BLOB

## MVP Goal

An example of a subreddit comment body about the CryptoCurrency Ethereum. The text has a mixture of positive and negative sentiment.

```
![gif](emote|eth2_emote|eth2)$4,826

![gif](emote|ada2_emote|ada2)$2.28

![gif](emote|vet2_emote|vet2)$0.1863

![gif](emote|moon_emote|moon)$0.2019
Let's go VET HODLERS! We'll be reaching new ath soon! 🚀🔥
Loopring has been holding well during the night. Good to see.
Today we feast, tomorrow we cry. Today we drink wine, tomorrow we take our anti-depressions meds. How I love crypto
, perfect for emotionally unstable people
VET hodlers, hang on to your butts
LRC absolutely crushing it. $5 by end of month, you heard it here first
LRC???? omG I AM SO LUCKY TO BUY IN LAST MIN
LRC, how am I supposed to sleep when you keep givin me the green dildos?
LR-C to 10$ is sooner than we think 🚀🔥🚀
LETS GO VET !
```