

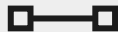


Version 0.01.0

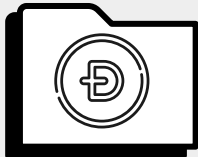
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Introduction / Background



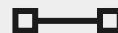
Data Collection & Cleaning

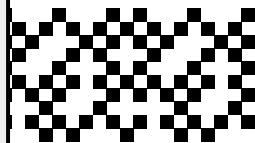
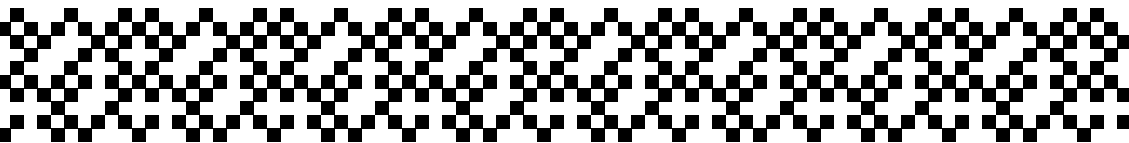
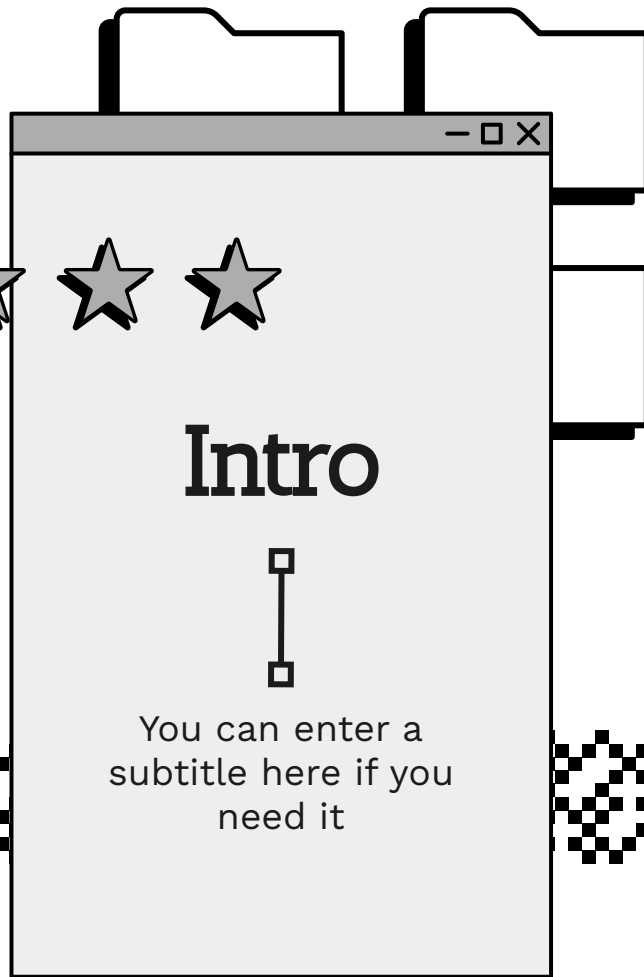


EDA / Visualizations



Recommender







Who Am I?

Nicholas (Nick) Nguyen

- Data Scientist/Analyst
- Crypto Expert/Consultant (6+ years experience)
- Investor/Miner





Can there be a
quicker and easier
way to identify
undervalued coins
on **Twitter**? 

API's

Tweepy



Following

200 counts per 15
minutes

CoinGecko



Coin Price

30 calls per min rate
limit

SNScrape



Tweets & More!

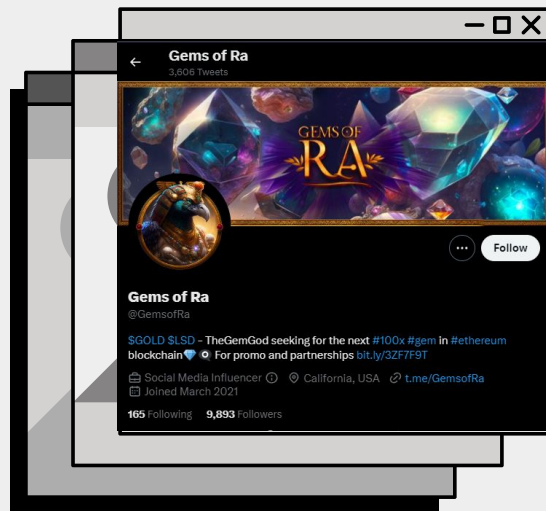
No Rate Limit

Methodology:

User inputs: @GemsOfRa (can be anyone)

- tweepy ● Scrape #1. All users that user is following
- snsrape ● Scrape #2. All tweets within 30 days from users following list
 - Identify coins from those tweets (\$ex.)
- snsrape ● **Scrape #3.** All tweets involving top 20 coins within 90 days from following list
- snsrape ● **Scrape #4.** All tweets involving top 20 coins within 90 days from entire twitter
- snsrape ● Scrape #5. All chinese tweets involving top 20 coins within 90 days from entire twitter

Box of \$coins





Data Dictionary

Date	Username	Followers
Tweet	Sentiment	Coins Extracted
Sentiment Rank	Language	Translated



02

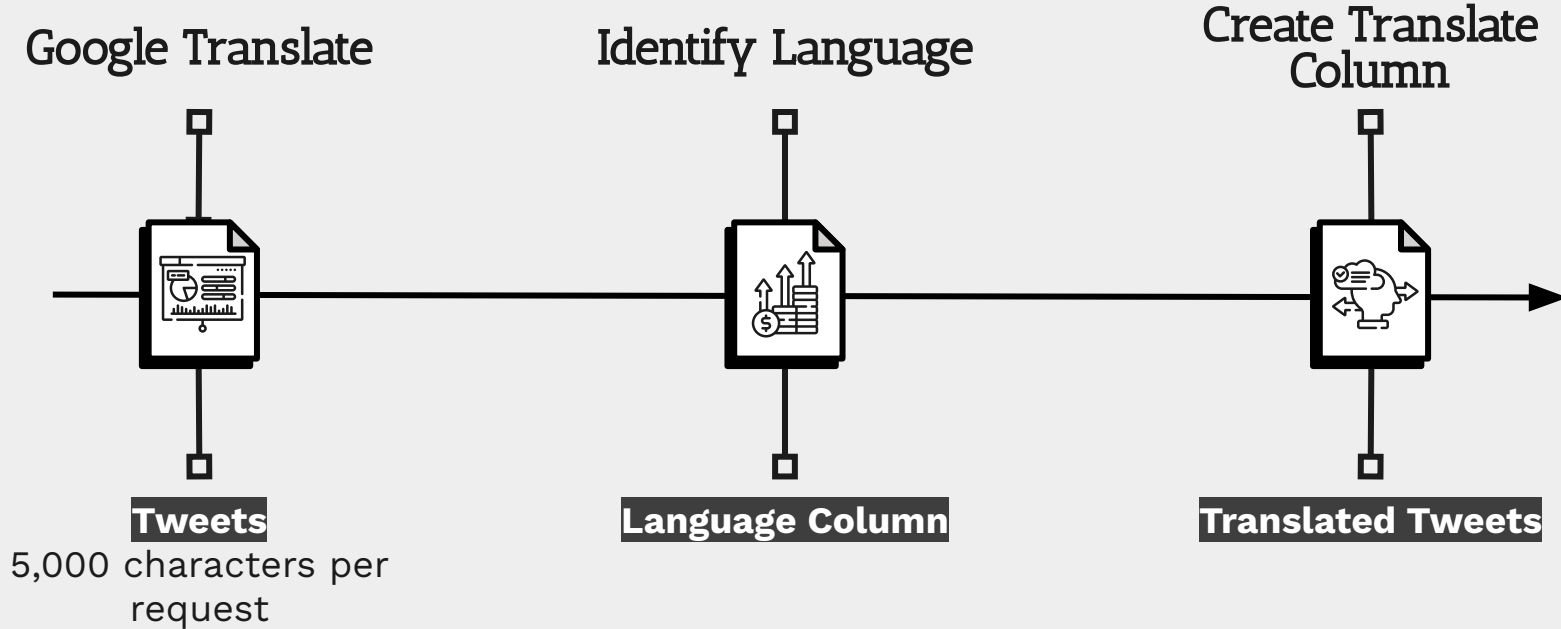


Cleaning



Data engineering,
cleaning, and
processing

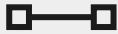
Translate for NLP



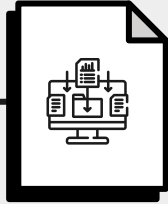
Data Engineering for NLP



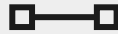
Tweets



Remove: special characters, links, hashtags, emojis



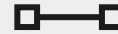
Find Coins



Extract words that begin with '\$' & special function for those without



Drop Tweets



If they don't involve a coin, drop em!



.explode()



Assign tweets with multiple coins to separate tweets

Preprocessing Tweets w / Lemmatization

Take out:

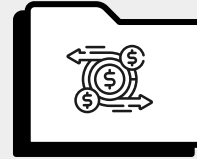
- Words that involve the coin regarding tweet
- English Stopwords



Raw Tweet



**“i'm so sick of this i sold all
my \$ARB and shorted bc of
shanghai and now im about to
get liquidated at \$20”**



Result



**“sick sold shorted shanghai
get liquidated”**

Sentiment Analysis

< 0



Negative Sentiment

“the arb for \$usdc to \$usdt is insane along with the \$eth gas fees yikes”

> 0



Positive Sentiment

“just look at that weekly \$sani chart and look at the macro environment there is no way you can't be bullish on this. 100m+ is programmed people have 0 clue about fomo. i've experienced it in 2 bull cycles there is nothing comparable.”

= 0



Neutral Sentiment

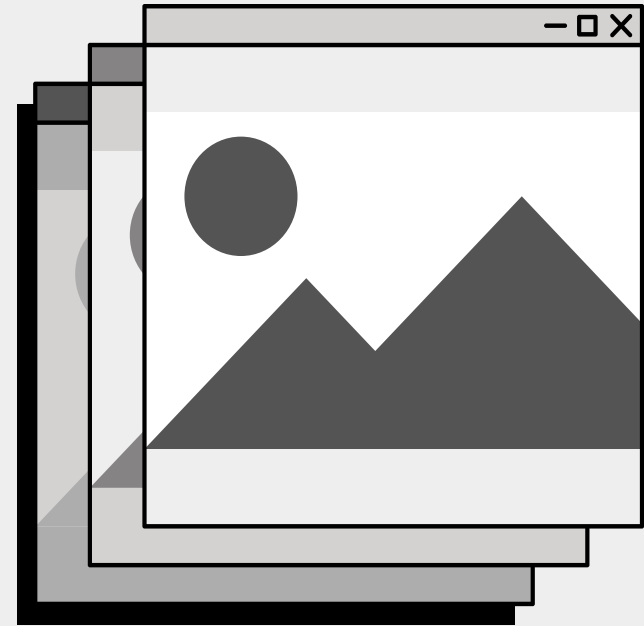
“given the changes in stable coins and banks, will convert the remaining of the \$1 billion industry recovery initiative funds from busd to native crypto, including , and eth. some fund movements will occur on-chain. transparency.”

Sentiment Ranking (experimental)

This algorithm allows for those who have more followers to have a more important sentiment.

I have made this calculation by the formula:

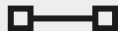
- **Sentiment = Sentiment * (0.1 * $\log(\# \text{ of followers})$)**



TFIDF Vectorizer



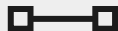
Positive



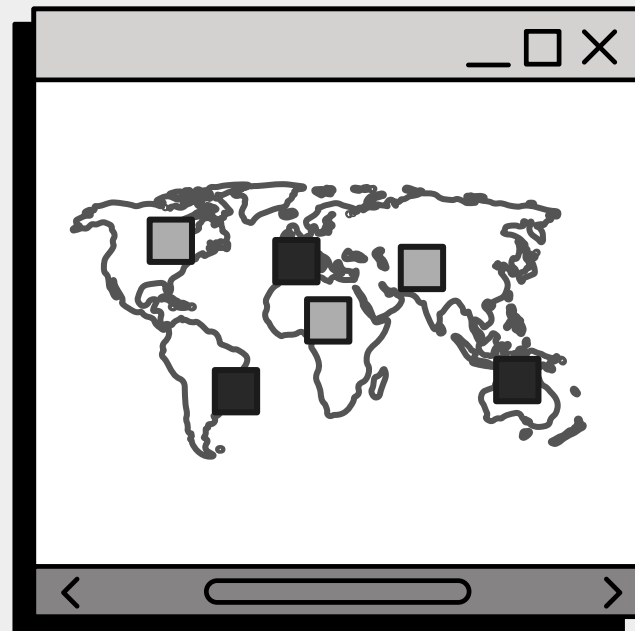
Sentiment > 0.3



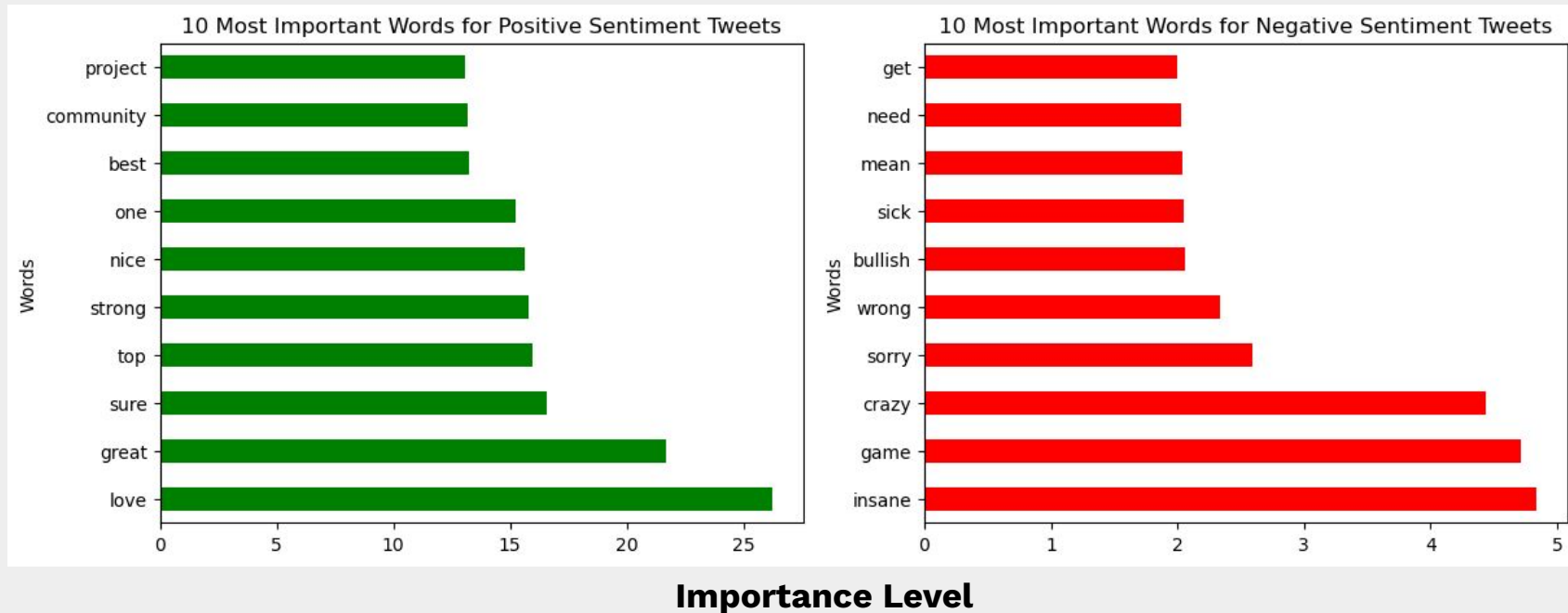
Negative



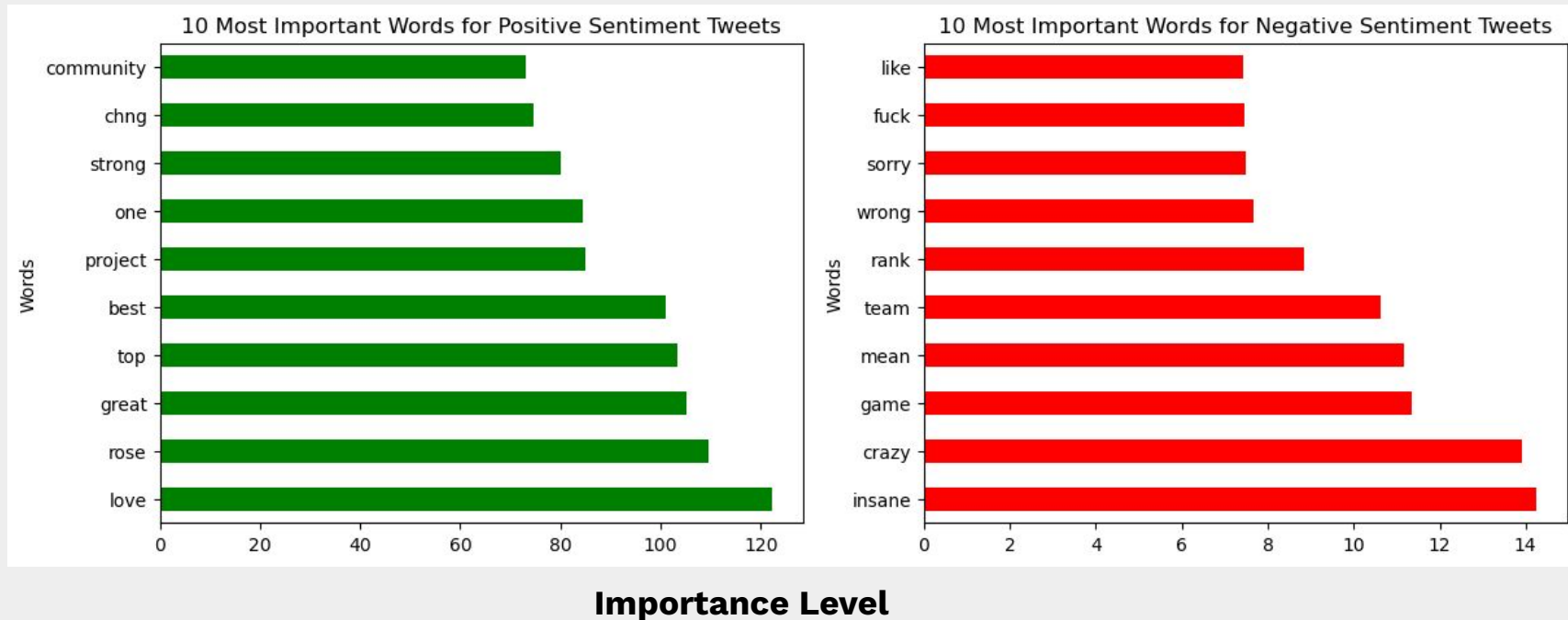
Sentiment < 0.3

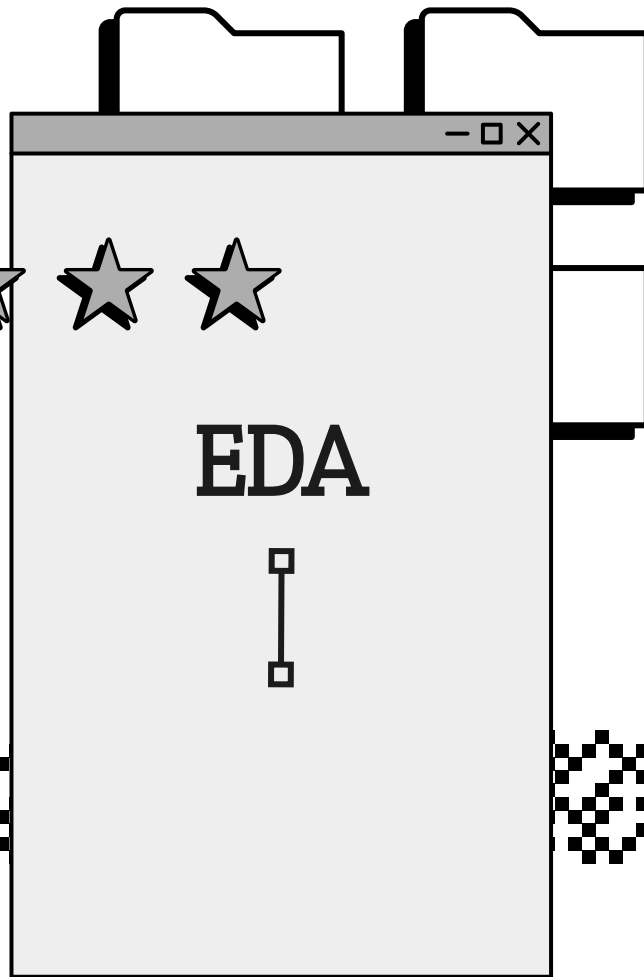
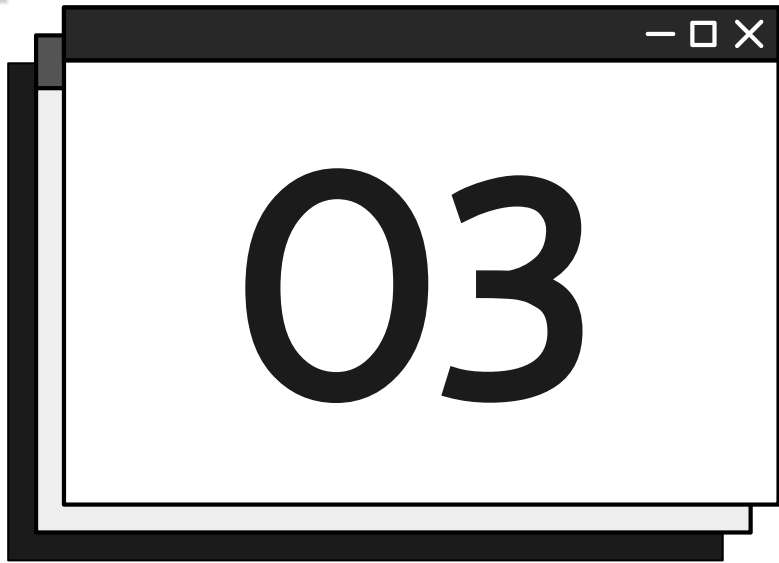


Tweets from Following List

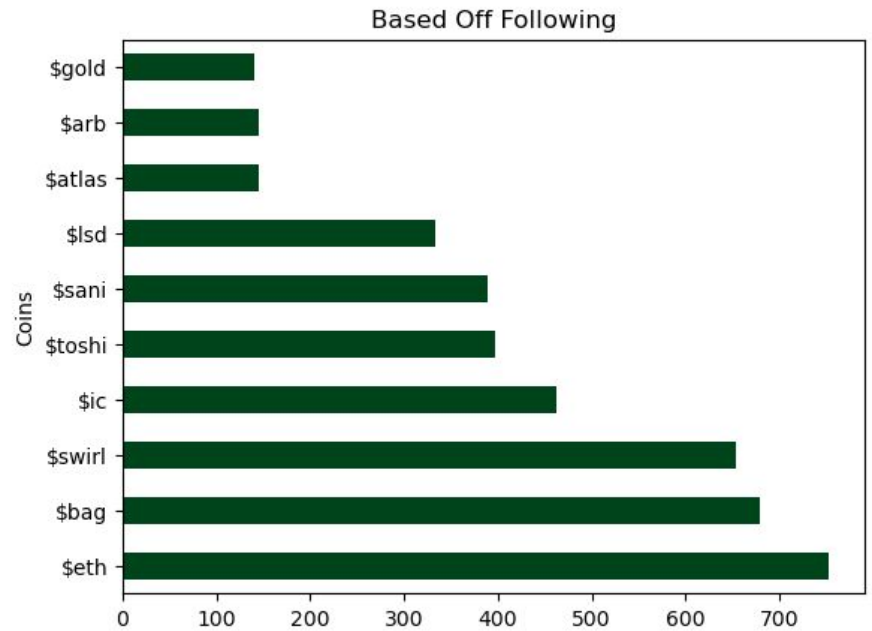
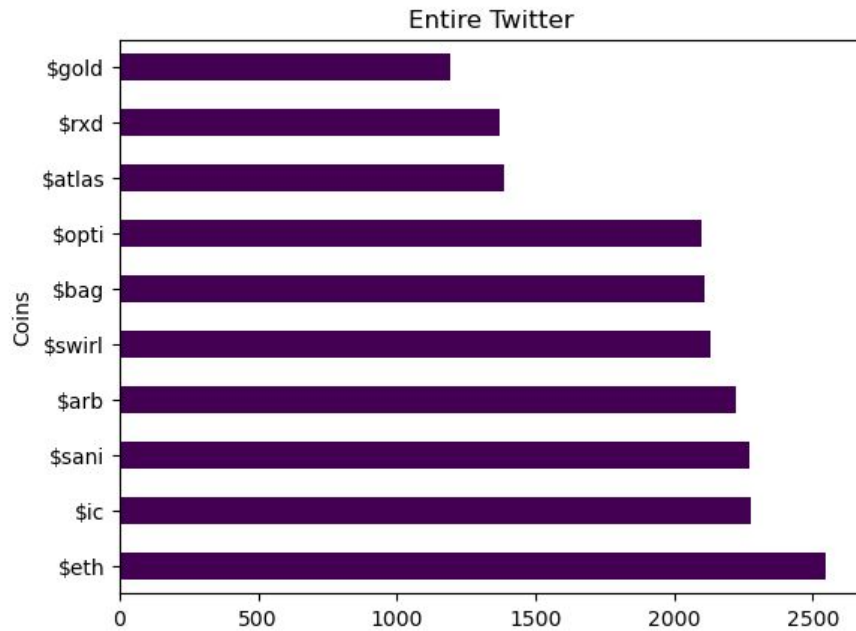


Tweets from Entire Twitter



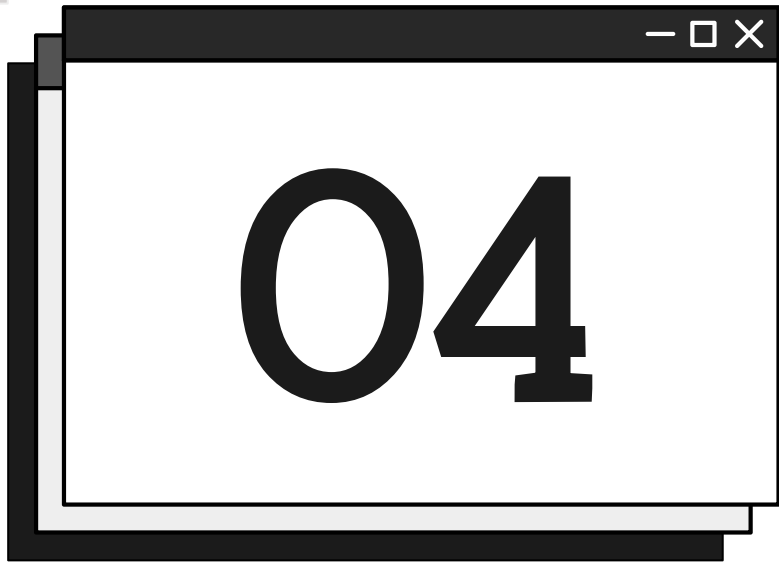


Top 10 Most Talked About Coins

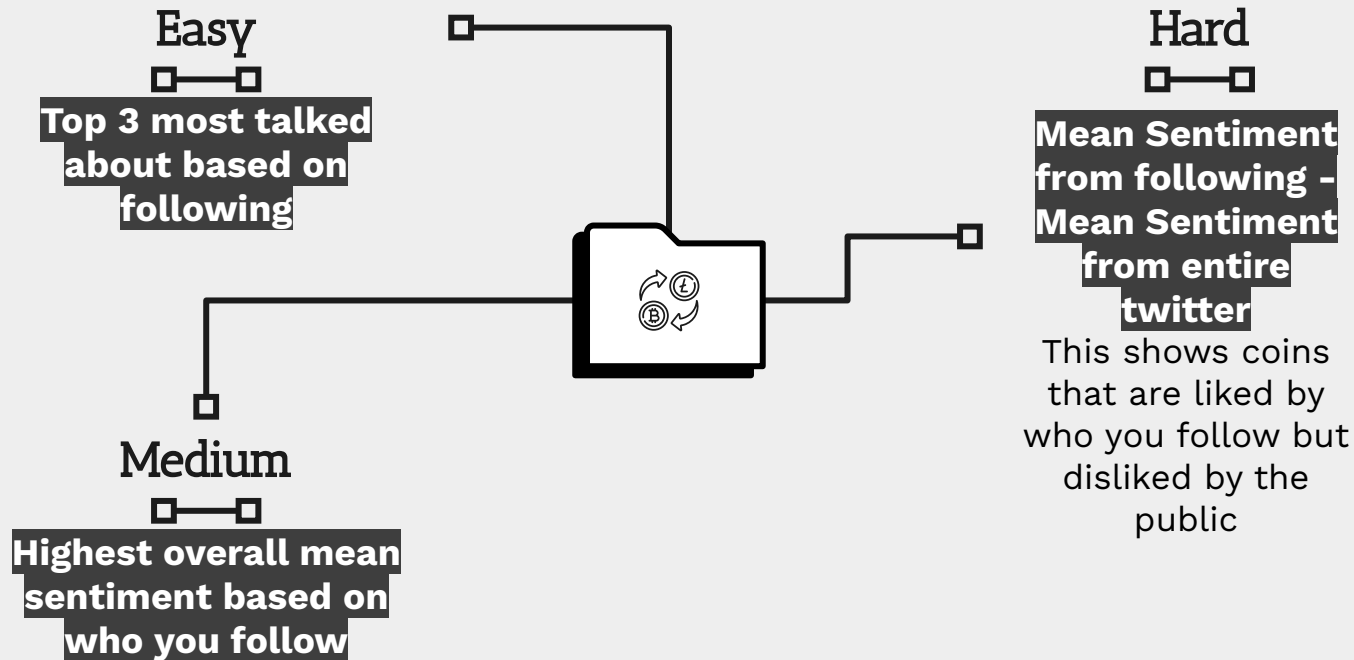


Counts



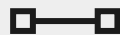


How Do We Identify Top 3 Coins

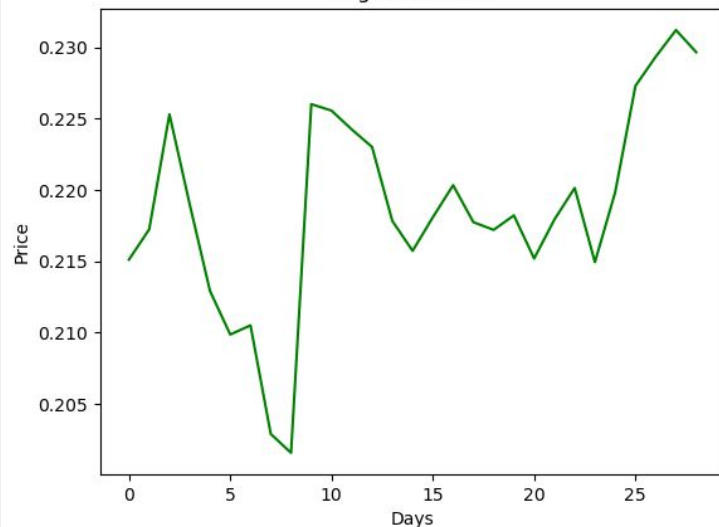


* Sentiment 3 day rolling average

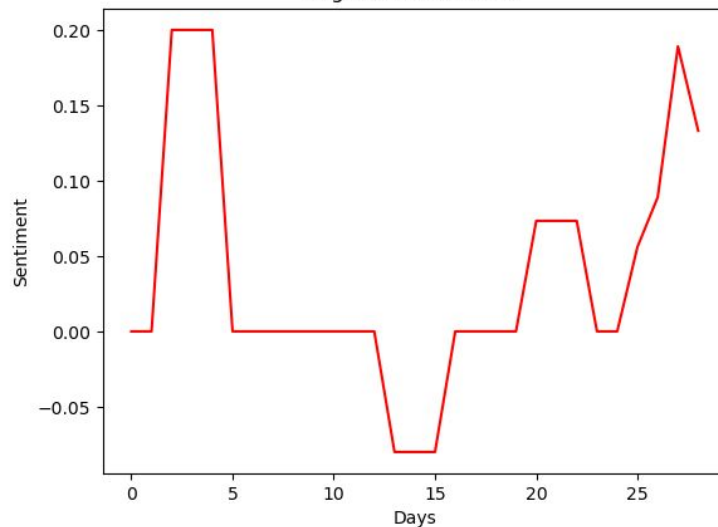
\$ALGO / Algorand



Algorand Price

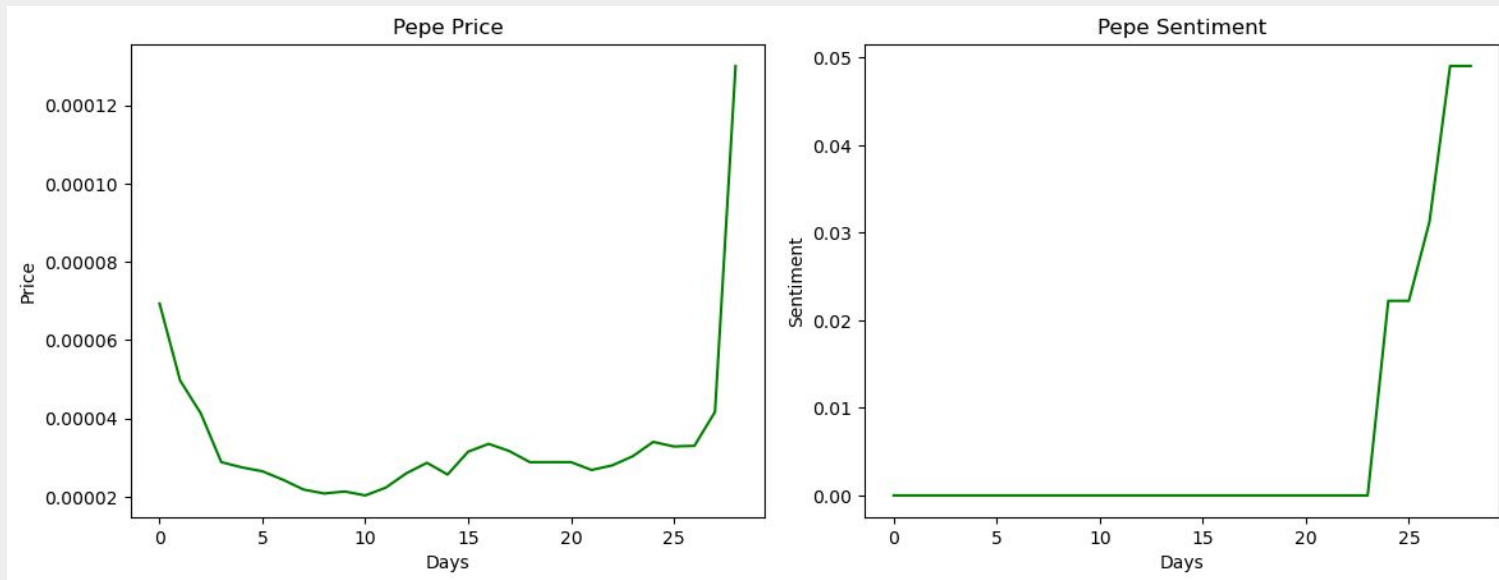


Algorand Sentiment



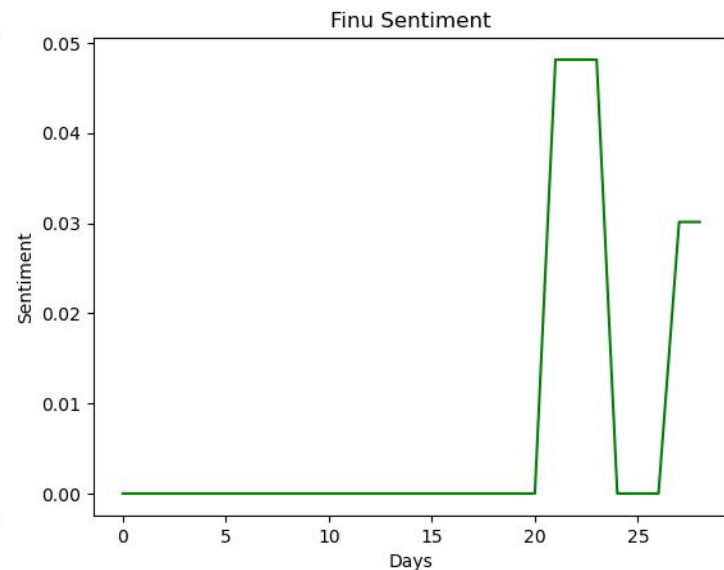
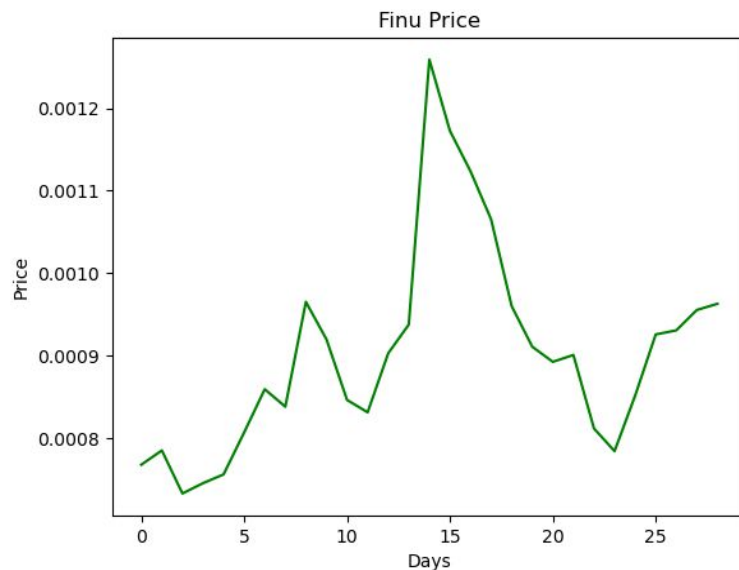
* Sentiment 3 day rolling average

\$PEPE / Pepe



* Sentiment 3 day rolling average

\$FINU



What's Next?



Modeling



Run XGboost Classifier
to predict if go up/down



Forecasting



Forecast the coins we
recommended



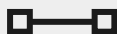
Trends



Find keywords which
will help identify coins



Recommender



Combine price with
sentiment



Sentiment Rank



Specific user's tweet
history vs price instead
of follower #

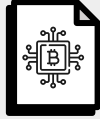


Sell Indicator



Sell if sentiment is too
high?

What's after What's Next?



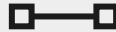
More Data



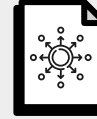
Google Trends,
Blockchain Monitor



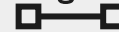
Even More Data



Volume, BTC/ETH
Dominance, Fear/Greed
Index



Fund Allocator / Risk Management



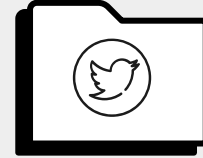
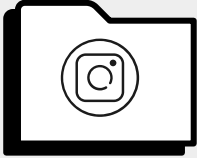
How much should be
invested given the risk?



Automation



Prefect ... Automate
this process



Do you have any questions?

knicknguyen@gmail.com

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