The Power of Elon Musk

Team Members:
Neil Chen (Presenter)
Mackenzie Markham
Abhishek Peri
Ziyu Tang
Saud Alsulaiman



UC San Diego

Motivation

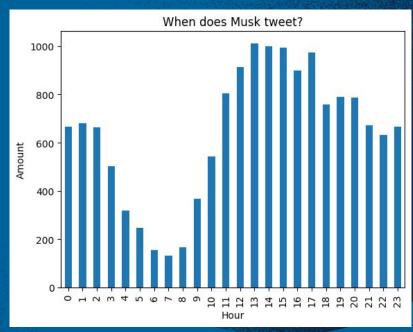
- Social Media is really powerful. There are 4.76 billion social media users around world.
- Twitter has around 450 million monthly active users as of 2023 and Musk has 131 million followers.
- Musk's tweets may have influence on the stock market, cryptocurrency and social attention.



Datasets

- Elon Musk's tweets from 2010 to 2022
 - Tweet Body
 - Date and Time
 - Number of likes
- Keyword Search Volume from Google Trends
 - Give a value of Interest from 1 to 100
- Price
 - Stock Price
 - Price of Bitcoin & Dogecoin

A Fun Fact Elon Musk Does Sleep!



Tesla

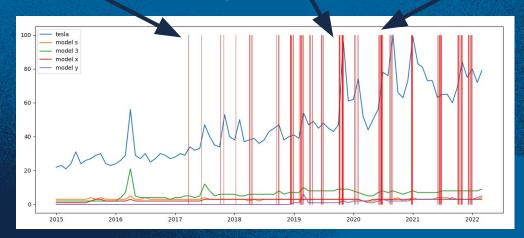
10.7K Retweets 1,210 Ouote Tweets 35.1K Likes







Google Trends



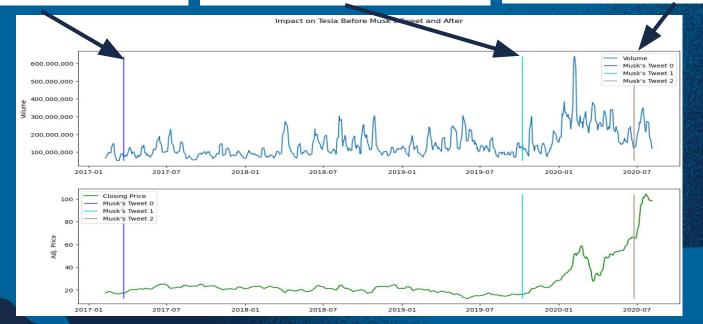
UC San Diego

Tesla

UC San Diego





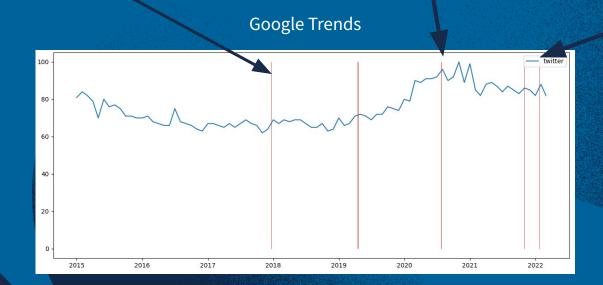


Twitter







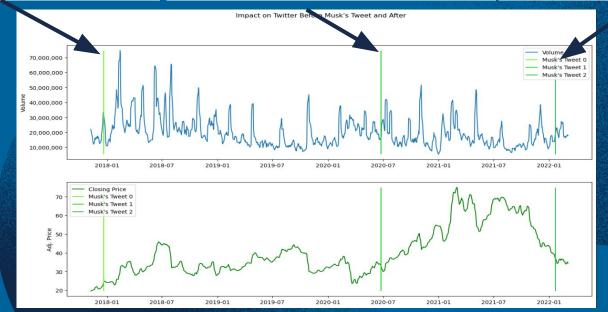


Twitter









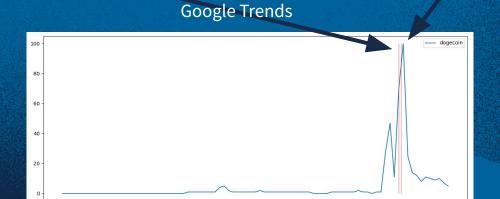
UC San Diego

7

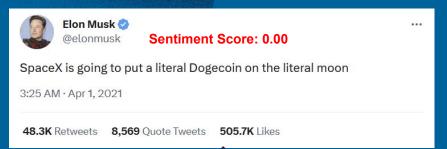
DogeCoin



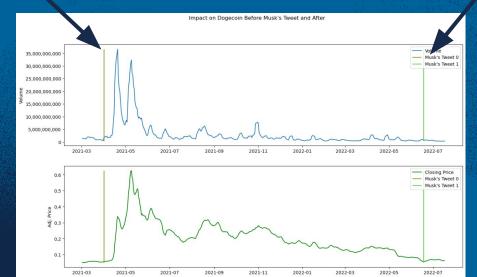




DogeCoin







Bitcoin

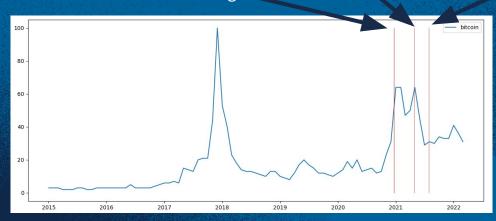






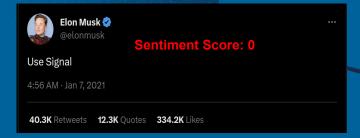
11.6K Retweets 3.118 Ouote Tweets 91.7K Likes

Google Trends



Signal

Google Trends

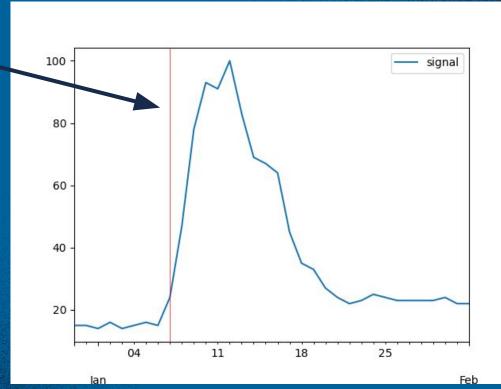


Elon Musk said 'use Signal,' and confused investors sent the wrong stock up 438% on Monday

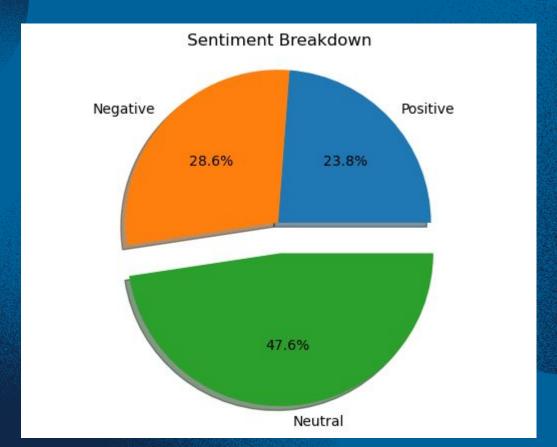
 Musk said Sunday he plans to donate more to the app, which is funded by a nonprofit organization.



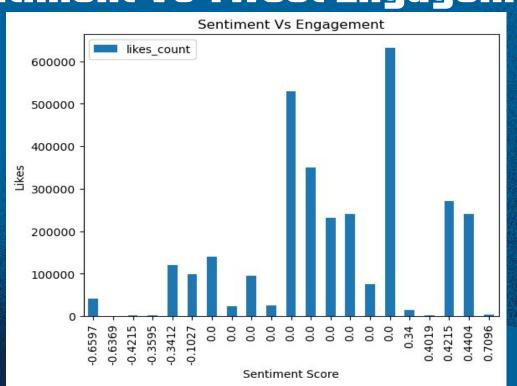




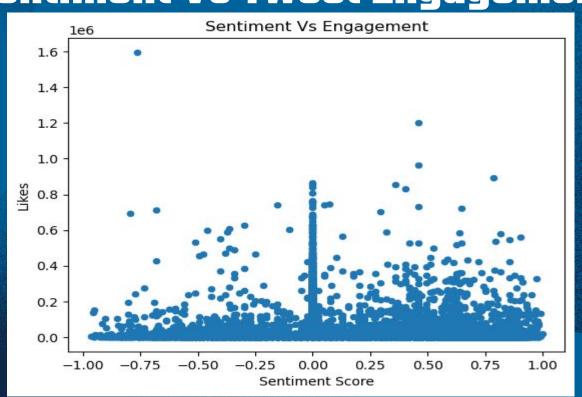
Overall Tweet Sentiment Breakdown



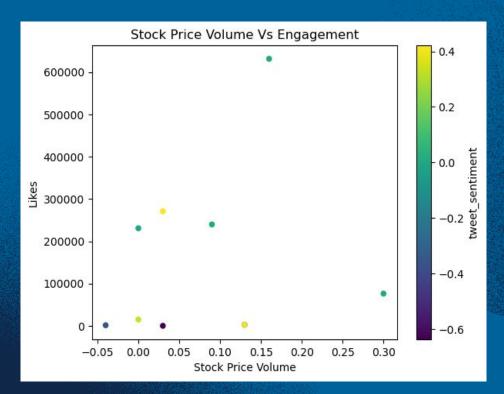
Sentiment Vs Tweet Engagement



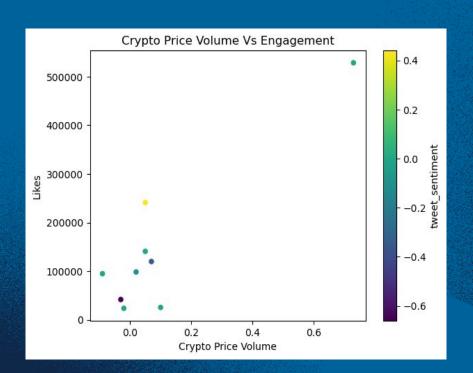
Sentiment Vs Tweet Engagement



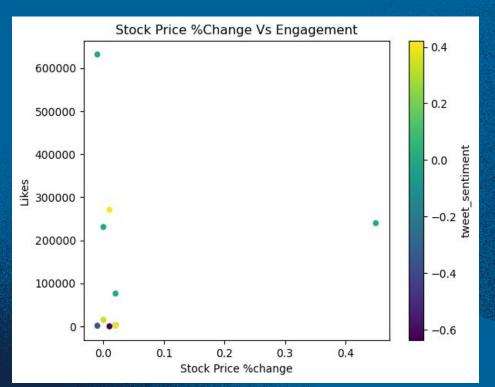
Stock Volume Vs Tweet Engagement



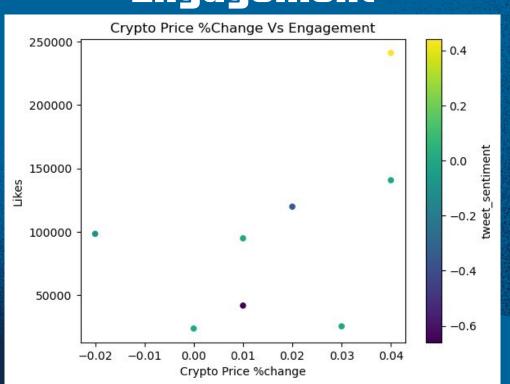
Crypto Volume Vs Tweet Engagement



Stock Price change Vs Tweet Engagement



Crypto Price change Vs Tweet Engagement



Conclusions

- 1. Musk's tweets cause spikes on Google Trends
- 2. Musk's tweets have no if not little impact on the stock market
- 3. Musk's tweets have some influence on the cryptocurrency market
- 4. The sentiment model is based on the adjectives in the tweets and many of the time
- 5. The sentiment model fails to detect tweets with no adjective due to the lack of context