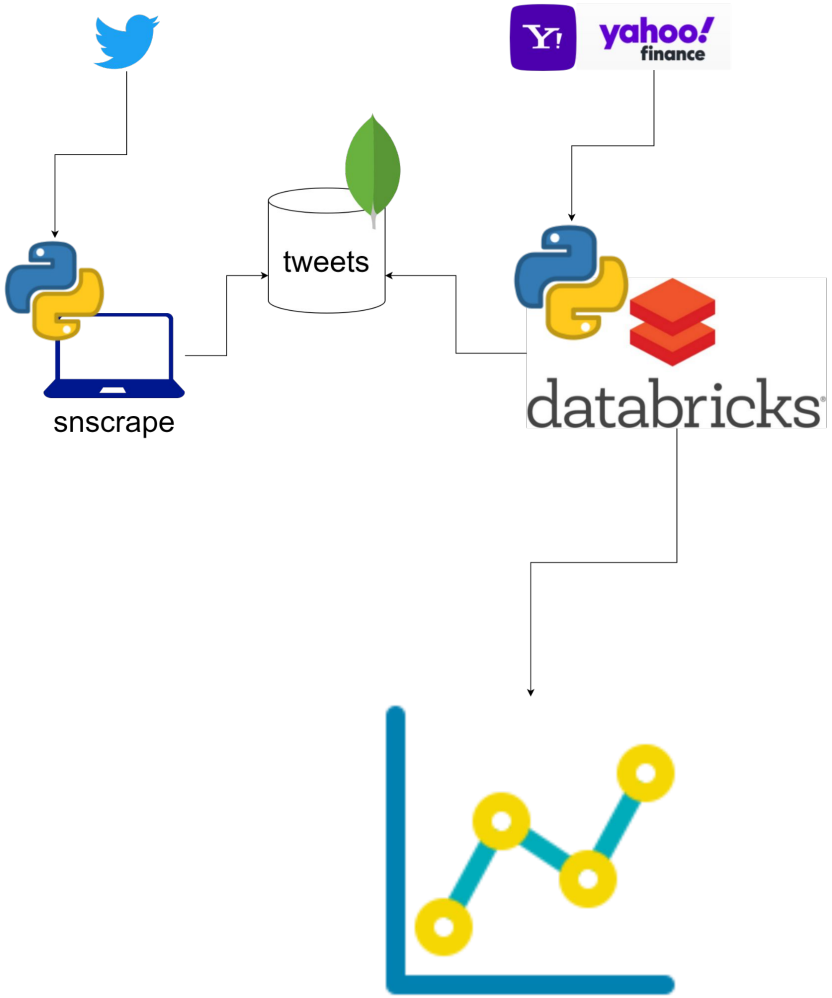
Crypto Price Visualization

Big Data Technology & Architecture

Overview



Twitter Scraper: tweets by username

```python
def snscrape_ids(keyword_user_search_param, keywords_users_list, since, until, lang):
    dir_name = f"{since.replace('-', '')}_{until.replace('-', '')}"

    Path("./scraped_tweet").mkdir(exist_ok=True)
    os.chdir(os.path.join(ROOT_DIR, "scraped_tweet"))
    Path(dir_name).mkdir(exist_ok=True)

    temppath = "C:/twittertest/twits.json"
    for keyword in keywords_users_list:
        if len(keyword) > 0:
            output_name = f"{keyword.replace(' ', '_')}_{since.replace('-', '')}_{until.replace('-', '')}.txt"
            output_path = os.path.join(ROOT_DIR, 'scraped_tweet', dir_name, output_name)

            print(f'scraping tweets with keyword: "{keyword}" ...')
            try:
                os.system(f'snscrape twitter-user {keyword} > {temppath}')
                print('Searching for twitter-user:', keyword)
            except Exception as err:
                print(f"SNSCRAPE ERROR: {err}")
    shutil.move(temppath,output_path)
    print(f'Scraped all tweets in keywords list.')
```

Twitter Scraper: save to Mongo

```
#when saving to mongo, objects in list are changed and Json serialization fails later
tweets_batch_copy = [t.copy() for t in tweets_batch]
save_to_mongo.saveToMongo("twitter", "user_tweets", tweets_batch_copy)
tweets.append(tweets_batch)
```

```
def saveToMongo(database_name, collection_name, tweets_batch):
    db = client[database_name]
    mycollection = db[collection_name]
    #ensure unique tweet id
    mycollection.create_index('id', unique=True)
    for twit in tweets_batch:
        try:
            mycollection.insert_one(twit)
        except pymongo.errors.DuplicateKeyError as e:
            print(f"Duplicate tweet insert: {str(e)}")
```

DOGE vs @WhalePanda

WhalePanda @WhalePanda · Jan 29

When I said that $BCH would be kicked out of the top 10 soon I honestly didn't expect $DOGE to be part of it. But oh well.

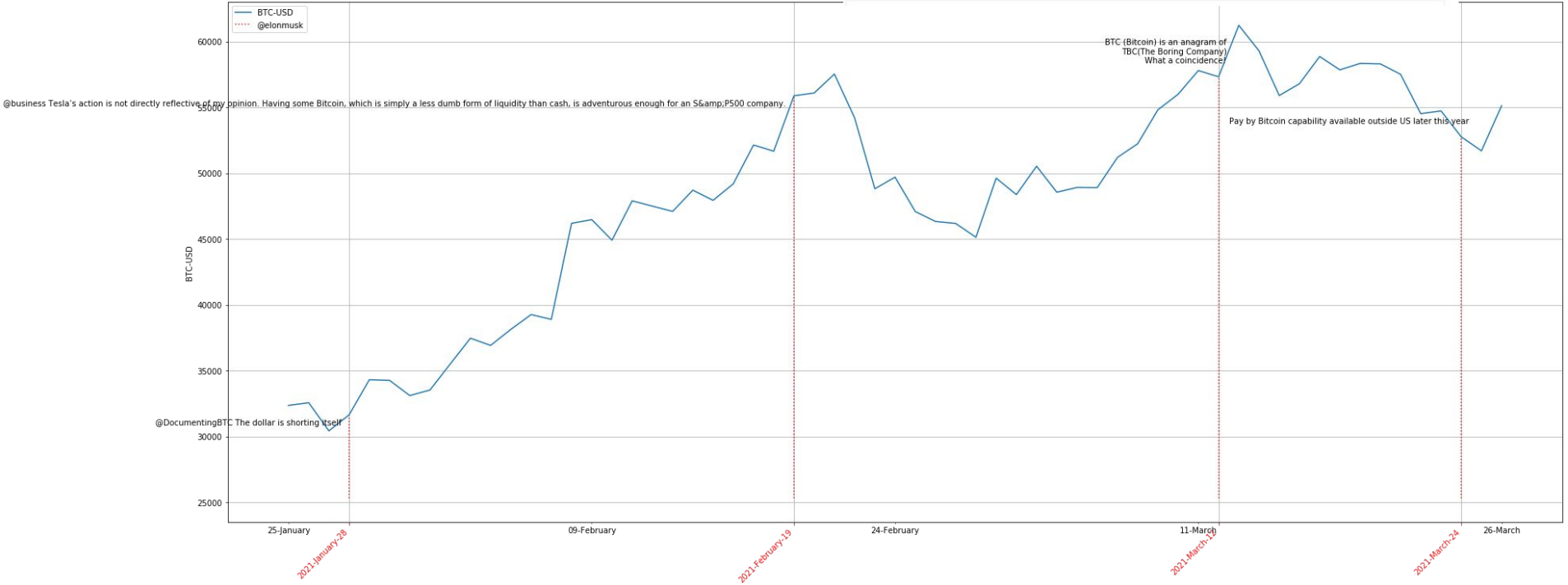
18 12 211

WhalePanda @WhalePanda · Jan 29

The funniest part of this $DOGE pump is that the creator, Jackson Palmer, absolutely hates capitalism and the free market.
This is eating him alive since he made it as a joke and he didn't want anyone making money off of the project.
¯_(ツ)_/¯

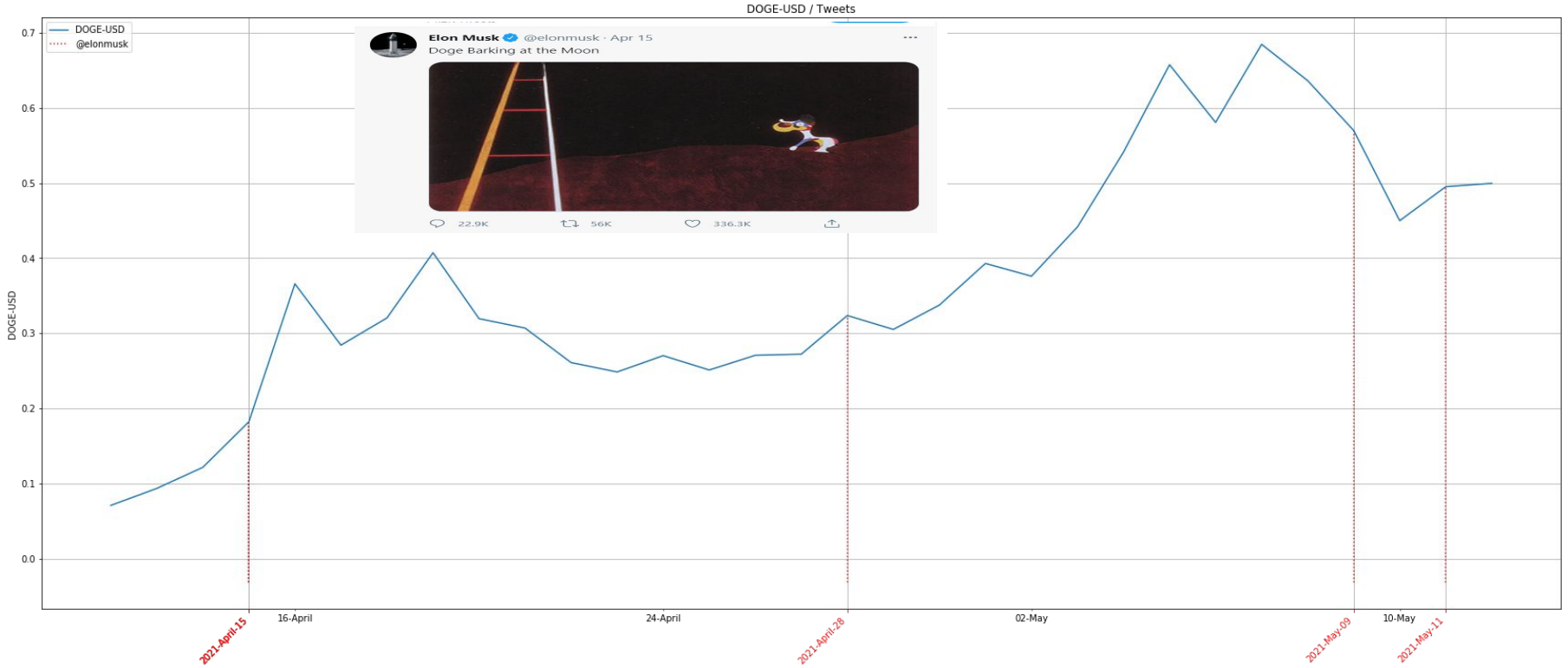
41 109 991

BTC vs @elonmusk



ETH vs @VitalikButerin

Doge @elon


DOGE-USD / Tweets
DOGE-USD
@elonmusk
Elon Musk @elonmusk · Apr 15
Doge Barking at the Moon
22.9K
56K
336.3K
DOGE-USD
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
16-April
24-April
02-May
10-May
2021-April-15
2021-April-28
2021-May-09
2021-May-11