# Sensing Twitter for social signals on cryptocurrencies

Team 1:

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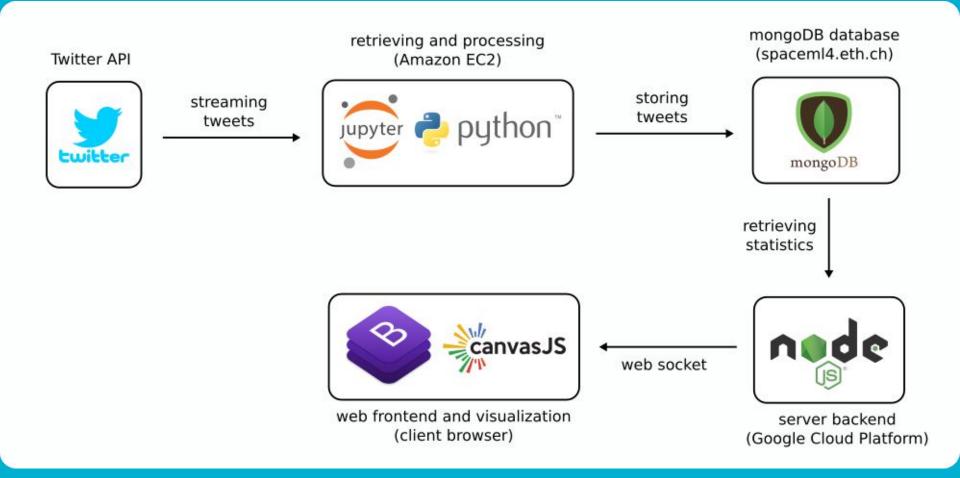
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#### **Problem**

- Retrieve Tweets from Twitter API
- Annotate them with sentiment, extract entities
- Calculate time series of key metrics
- Visualize results in real time in a web browser



# Twitter API filter keywords

blockchain

altcoin

cryptocurrency

token

bitcoin

ethereum

litecoin

cardano

monero

iota

tethe

## We track 50 cryptocurrencies

Bitcoin, Ethereum, Ripple, Bitcoin Cash, EOS, Litecoin, Cardano, Stellar, IOTA, TRON, NEO, Monero, Dash, Tether, NEM, VeChain, Binance Coin, Ethereum Classic, Qtum, Ontology, OmiseGO, Bytecoin, ICON, Lisk, Zcash, Zilliqa, Aeternity, Bitcoin Gold, Decred, 0x, Bytom, Steem, Verge, BitShares, Siacoin, Nano, RChain, Golem, Maker, Wanchain, Bitcoin Private, Populous, Bitcoin Diamond, Stratis, Augur, Waves, Dogecoin, IOST, DigixDAO

# Natural Language Processing, on tweets.



#### 0.70 Positive Sentiment



#### @PincoPallino17

Great to see new small businesses accepting Bitcoin and cryptocurrencies!



#### @PincoPallino17

This new ICO is cleary a scam...

#### 0.53 Negative Sentiment

#### Collect mentioned accounts...



@ErmenegildoZ
I mostly use @pretacoin to exchange and store small amounts.

# ...and cryptos-related tweets...



**@StylishUmberto**The price of SalsaCoins is going up, so thrilled!

# ...and sense the global sentiment about it.

# Have a global overview of trends.

# Most Mentioned Accounts

- @CoinExpert
- @BitcoinTrade
- @CryptoMobile

# Most Positive Accounts

- @MrDilliberg
- @JuanMoto

#### Most Mentioned New Cryptos

- Metamoto
- PizzaCoin

# An example negative Tweet

@elypratama 9.6.2018. 07:51:17

"It's future exchange. Don't waste time to wait and see for this project. Be part of @capital\_company now.\n#CapitalTechnologiesResearch, #blockchain, #privacy, #security, #ethereum, #bitcoin"

"sentiment\_score" : -0.4215, "coins" : ["bitcoin"]

## An example neutral Tweet

@jordanc95026067 9.6.2018. 07:38:04

"Get More Tokens: Send a minimum of 0.001ETH to 0xd506e5e57e22c695bf28c96e73c296051177a678, and get 444,444 tokens.\n\nThe more you send, The more you receive!\n\nGwei: 10\nGas: 150,000\n\n#airdrop #erc20 #eth #ethereum #Bitcoin #freetoken #freecoin"

"sentiment\_score" : 0,
"coins" : ["bitcoin","ethereum"]

## An example positive Tweet

@tonarino\_aoi 9.6.2018. 07:38:05

"NEM's Smart Asset system allows anyone to completely customize how they use the NEM blockchain, with a robust set of features including domain-like namespaces and full on-blockchain Multi-signature control.\n#NEM #XEM #altcoin #altcoins #blockchain #bcoin #crypto #cryptocurrency https://t.co/biK15kyNSV"

"sentiment\_score" : 0.765, "coins" : ["nem","xem"]

#### **Demonstration!**

#### Live demonstration:

http://35.234.78.152:3000/twitter\_keywords

#### Github repository:

https://github.com/DS3Lab/CDteam1