

# Using News to Predict Cryptocurrency Movements

TEAM: SLAMMING SQUAD

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# Big Idea: How is News correlated with the Cryptocurrency price?

- Can we use the content of news analytics to predict Cryptocurrency price performance? The ubiquity of data today enables investors at any scale to make better investment decisions.
- By analyzing news data to predict cryptocurrency prices, we find it a unique opportunity to advance the state of research in understanding the predictive power of the news. This power, if harnessed, could help predict financial outcomes and generate significant economic impact all over the world.

## Challenge:

- The challenge is ingesting and interpreting the data from the news to determine which data is useful, finding the signal in this sea of information;
- Data(News) could be in different format from different sources. That could take a lot of time to clean the data;
- News could have a lot of attributes, need to analyze and choose the right ones;
- Also need to compare different models, might need to custom our own.

## Data Collection:

<https://cryptonews.com/>

<https://www.coindesk.com/>

<https://coinmarketcap.com/>

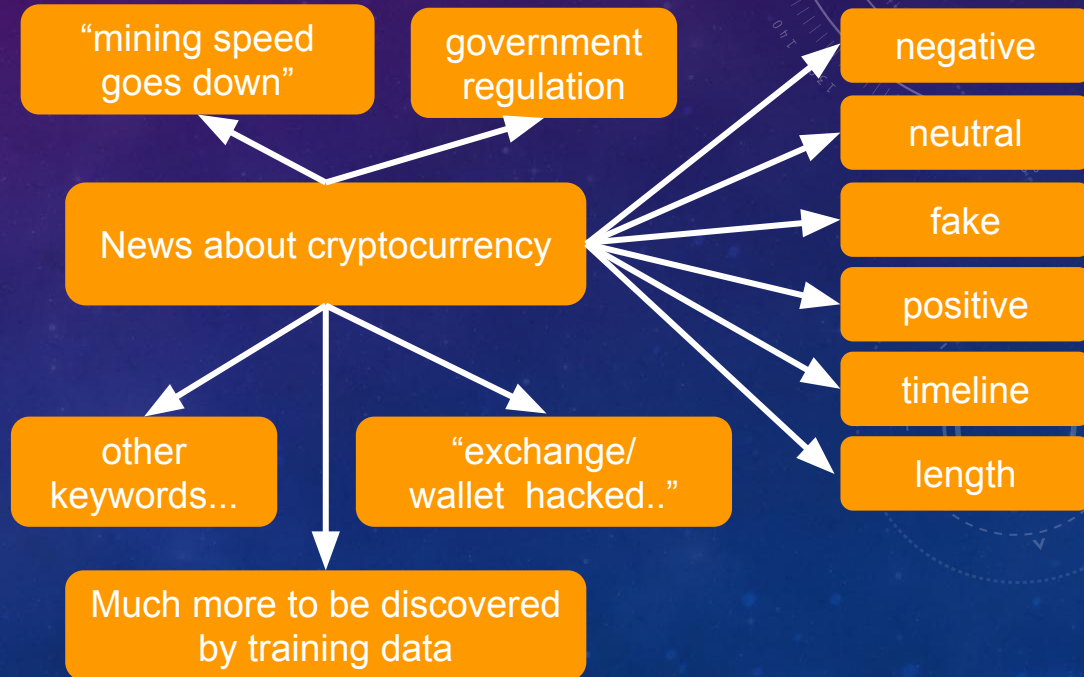
**Goal: Predicting future**

**Cryptocurrency price based on two sources of data:**

1) Market data--we collect market informations such as opening and closing price and trading volume of Bitcoin.

2) News data--contains information about news articles/commentary/development updates ...etc  
(To be collected by ourselves from these websites maybe in two weeks)

## POSSIBLE ATTRIBUTES OF NEWS ABOUT CRYPTOCURRENCY



## Solution:

- We first select a random sample from the meta dataset, split the sample set into two parts: training dataset and test dataset;
- Using training dataset, we could build a model by machine learning algorithm to envision our conclusion. Then we would use the test dataset to test its accuracy.
- We could test the model to check its accuracy and efficiency with another larger sample set.

## Plan:

- We would build a five member scrum team, including software engineers and data scientists
- We will use tons of data to train our model
- Every two week, we will progress our report
- Practice what we learn on data science and train our programming skills