Tweet Topics and Sentiments Analysis

Analyze tweet topics and sentiment using Unsupervised machine learning

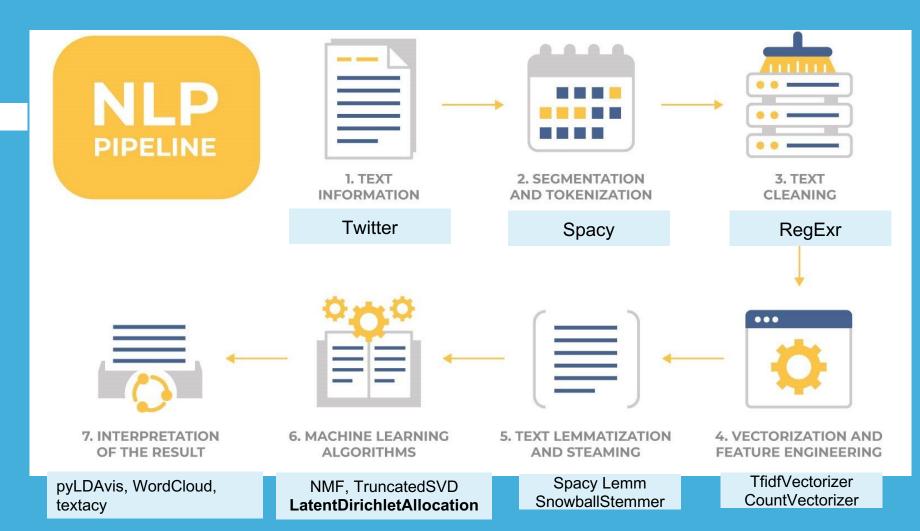
Motivation

Twitter with 192 million daily active users worldwide. It contains rich source of data to analyze and understand social behavior.

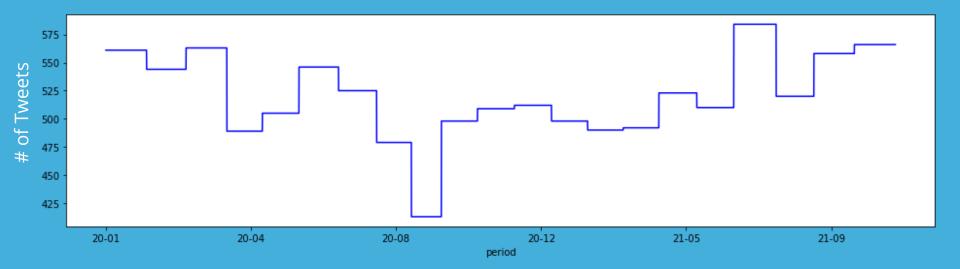
Goal

 How do people think about the the overall economic environment during the pandemic?

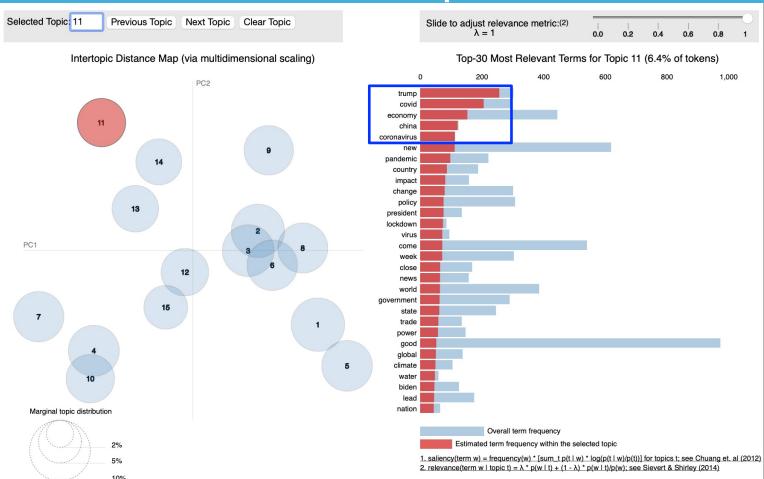
• Whether the sentiment in social media relates to the stock market?



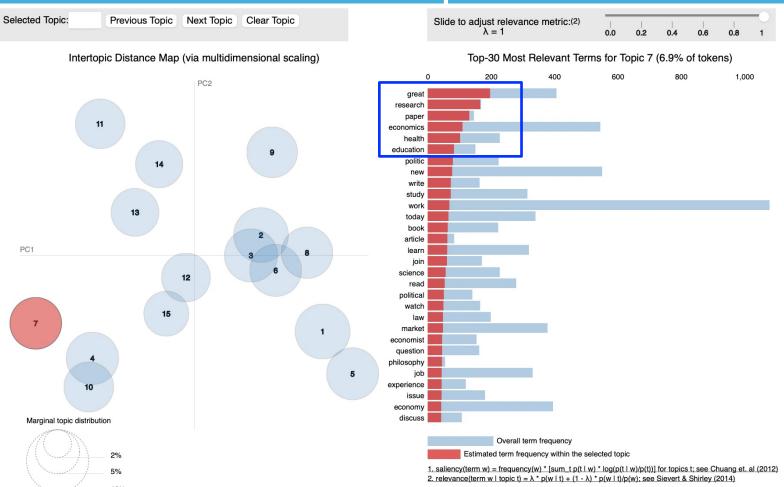
Exploratory Data Analysis



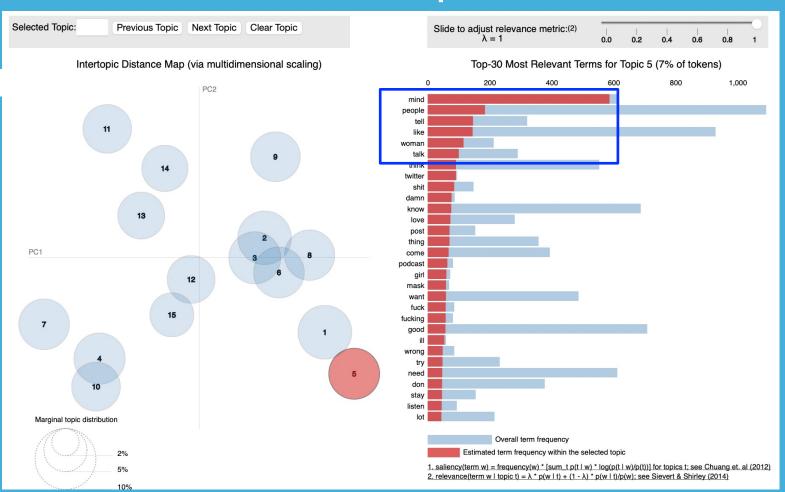
- O 2020.01-2021.10:69,060 data
- LikeCount > 2
- O Keyword/hashtag: economics, business, financ



Politics/ coronavirus/ country'



Education
/research
/school
/study

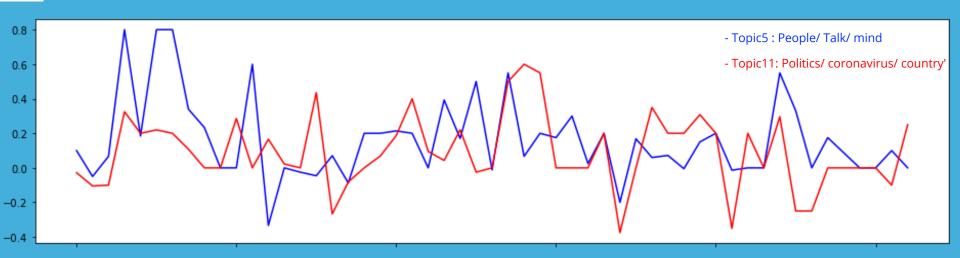


People
/Talk
/mind

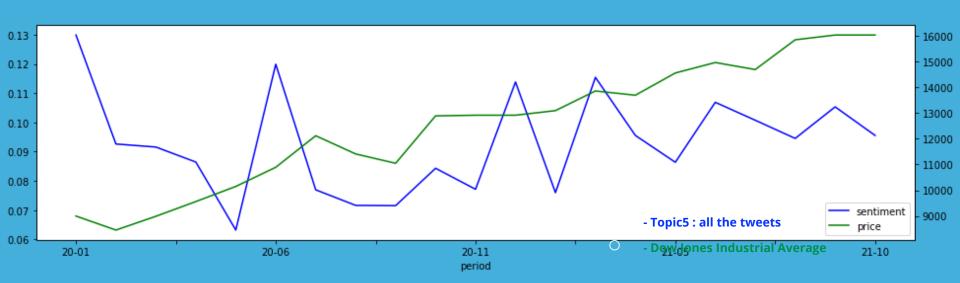
Latent Dirichlet Allocation

- Categories:
- Education/ research/ school/ study: 4, 7, 10
- Wealth/ work: 2, 9
- People/talk/mind: 1, 5
- Politics/coronavirus/country: 11
- Market, tax, government: 3

Sentiment Analysis



Sentiment Analysis



■ Future work

- Explore more on top tweets in each topics
- May need more data/months to observe better result (300-500/months)

THANKS!

Any questions?



Wealth/Tax/Trickle-downeconomics

textacy

