**Big Data Analytics in Finance - Project starting the April 27th**

Project on finding new insights on COVID-19 with Twitter data

Topic analysis (economy…), choice language

unique identifiers of the tweet (tweet ID) in the database

then use the Twitter API to have the content of the tweet

put them in Mongo DB

We can do this graph

Une image contenant texte, carte

Description générée automatiquement

We can do graphs to compare number of covid-19 cases in a specific location, and link it with Twitter activity (find some correlations)

Then, define our own problematic

Complementary data: We can use for example **Google covisd-19 mobility data**, **NYTimes article** (“See which states and cities have told their residents to stay at home”) to see when the lockdown began in the US states, and “**John Hopkins** get data” (number of cases, deaths…), check **Facebook** “data for good”, **Wikipedia** pages data, Kaggle (covid-19 competition), Google Trends, and others (air pollution…)

Links (data):

<https://github.com/echen102/COVID-19-TweetIDs>

<https://www.google.com/covid19/mobility/>

<https://www.nytimes.com/interactive/2020/us/coronavirus-stay-at-home-order.html>

<https://data.humdata.org/dataset/novel-coronavirus-2019-ncov-cases>

<https://dataforgood.fb.com>

<https://tools.wmflabs.org/pageviews/?project=en.wikipedia.org&platform=all-access&agent=user&redirects=0&range=latest-20&pages=Cat|Dog>

Some recent papers (NBER):

<https://nber.org/wp_covid19.html>

example: Social distancing, internet access and inequality (Chiou & Tucker), Polarization and Public health during the coronavirus pandemic (Allcott et al.), The geographic spread of Covid-19 correlates with structure of social networks as measured by Facebook (Kuchler, Russel & Stroebel)

Control for population density, number of cases, policy (stay at home directive or not)…

We can replicate the coronavirus.ravenpack.com dashboard

Ideas:

Covid-19 impact on cryptocurrencies: Stock market prices vs Cryptocurrencies market prices, transactions activity with Bitcoin, crypto (Bitcoin) sentiment on Twitter