

Exploratory Data Analysis using R

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Exploratory data analysis is performed on twitter data.

Steps followed:

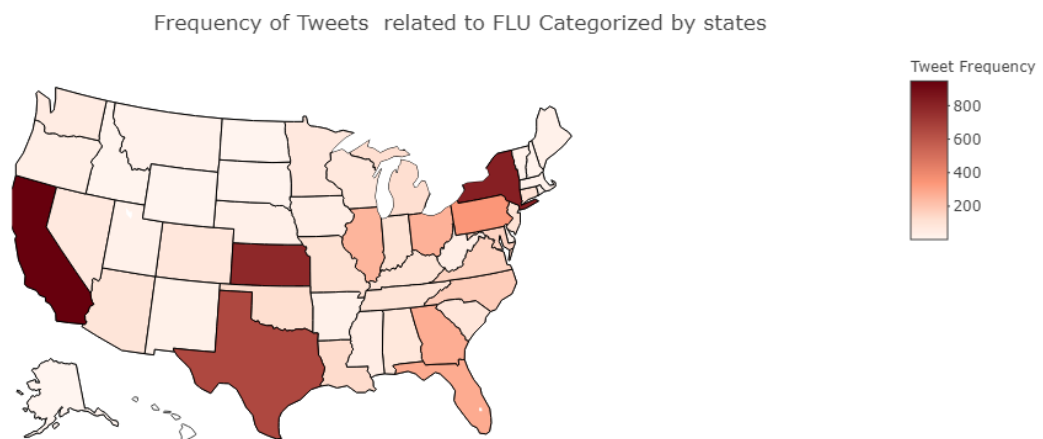
- 1.Connected to Twitter API using Outh Keys
- 2.Collected Tweets using all keywords related to Flu
- 3.Collected Username and Tweet-text from Tweets
- 4.collected userlocations using username extracted from tweets
- 5.storing tweets in csv file and plotting them on heat map

Process Overview

Tweets Crawled → Filtering Tweets and Cleaning → Visualization → Helps Decision Making

Tweet Frequency Graph

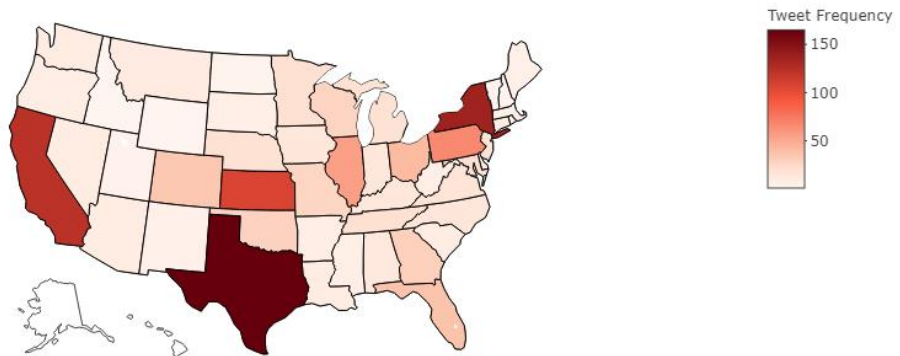
Following graph is plotted using all the tweets searched with keywords related to Flu:



Cold Tweets Graph

Following graph is plotted using all the tweets searched with keyword to cold:

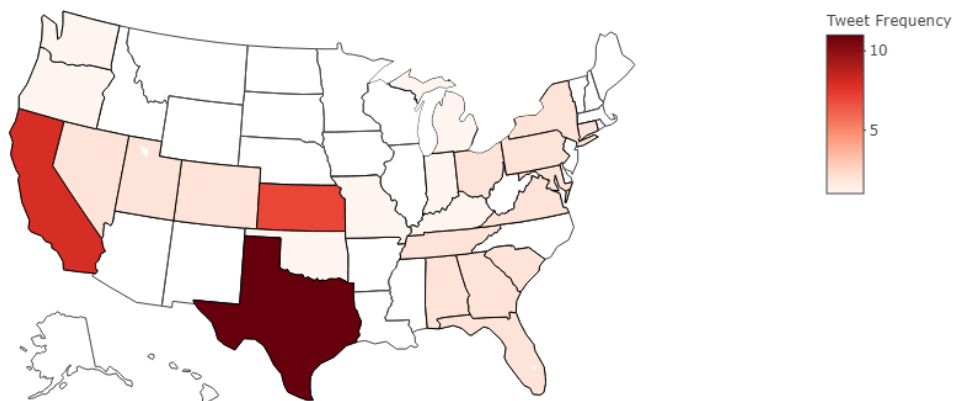
Frequency of Tweets on Cold Categorized by states



Cough Tweets Graph

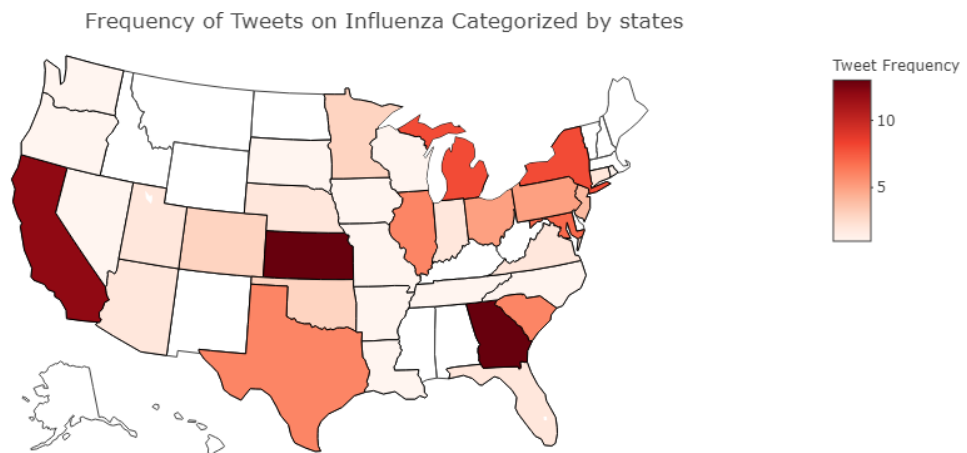
Following graph is plotted using all the tweets searched with keyword to cough:

Frequency of Tweets related to Cough Categorized by states



Influenza Tweet Graph

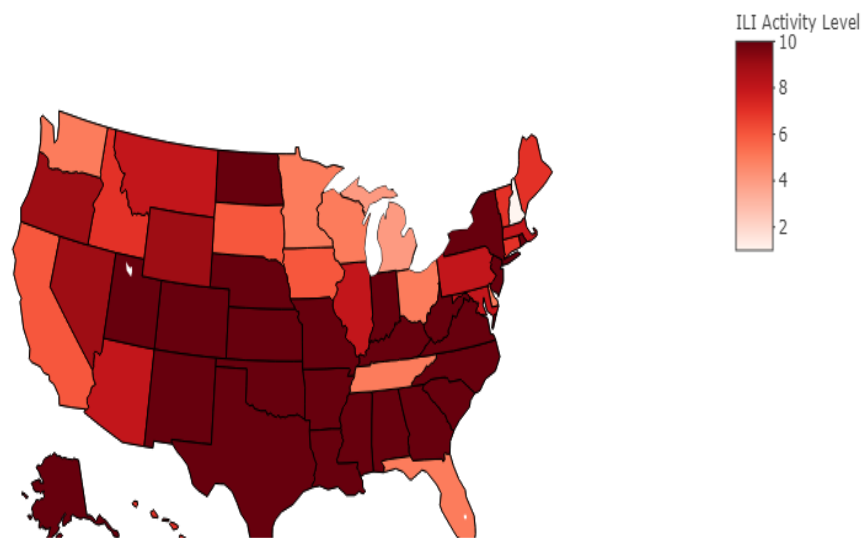
Following graph is plotted using all the tweets searched with keyword to influenza:



CDC DATA Graph

Following Graph is plotted using CDC website heat MAP:

2018-19 Influenza CDC data Season Week 8 ending Feb 23, 2019



Comparison graph tweets vs CDC data heat map

Comparison between CDC heat map vs tweets heat map

