Assignment 1 Web Analytics and Mining

MET CS 688

The objective of this homework is to collect a list of articles in Google News or Bing News, which include the keyword Covid-19.

- (1) Do either one of the following:
- (a) Use a BeautifulSoap, RVEST, or any other libraries you like and search for the "Covid19 Vaccine" and download 50 articles title or abstract, from the search result, via web scrapping.

Output:

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In [1]: import requests
import bs4
          import pandas as pd
import re
import seaborn as sns
         import matplotlib.pyplot as plt
%matplotlib inline
         res = requests.get("https://news.google.com/search?q=Covid19%20Vaccine")
soup = bs4.BeautifulSoup(res.text,"lxml")
          articles = []
for i in range(0,50):
    a = soup.select('.xrnccd')[i].getText()
             articles.append(a)
          for i in range(0,len(articles)):
    print("\n",articles[i])
           NY hospital puts baby deliveries on hold as maternity workers quit over COVID-19 vaccine mandateFox Newsll hours ago
          bookmark_bordersharemore_vert
           England cancels plans for COVID-19 vaccine passports: health officialFox News7 hours agobookmark bordersharemore ver
           Arkansas governor: Biden's Covid-19 vaccine mandate 'hardens the resistance' to themCNN9 hours agobookmark bordersha
          remore_vert
           What might increase COVID-19 vaccine willingness? NMSU professor's study may yield answers.Las Cruces Sun-News5 hour
          s agobookmark bordersharemore vert
           FDA Approves First COVID-19 Vaccine | FDAFDA.govAug 23bookmark_bordersharemore_vert
           {\tt Not \ getting \ vaccinated \ against \ Covid-19 \ is \ like \ driving \ while \ intoxicated, \ health \ expert \ says {\tt CNNYesterdaybookmark\_bo}}
          rdersharemore vert
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- (2) Stores the downloaded articles' title and abstract on your local drive in a standard file format, e.g., CSV, XML, SQL, or JSON.
- (3) Write a script to look at the title of each article and count the following words: "side effect," "Pain," "Booster," "vaccine" Then, create a word frequency histogram.

Output:

