

# Nuclear\_project-Copy2

February 9, 2025

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[8]: ####Idea Question:  
##whats the sentiment analysis of each article (3) between the sources used to ↴  
→describe the chernobyl nuclear disaster  
##finding the cause of the chernobyl nuclear disaster through the word ↴  
→frequency of each article  
##whats the frequency of each word  
  
#More:  
##basically the frequency of each word in comparison to another and see which ↴  
→is most frequent  
#what is the word chernobyl most associated with in each article? (for cause?)  
#will use on a line-by-line basis to see and answer the question,  
  
import packages  
import numpy as np  
import pandas as pd  
from nltk.sentiment.vader import SentimentIntensityAnalyzer  
import requests  
import re  
from urllib.parse import urlparse  
import urllib.robotparser  
from bs4 import BeautifulSoup  
from nltk import tokenize  
import nltk  
from nltk.sentiment.vader import SentimentIntensityAnalyzer  
from collections import Counter  
import string  
nltk.download('vader_lexicon')  
  
# This code checks the robots.txt file  
def canFetch(url):  
  
    parsed_uri = urlparse(url)  
    domain = '{uri.scheme}://{uri.netloc}/'.format(uri=parsed_uri)  
  
    rp = urllib.robotparser.RobotFileParser()  
    rp.set_url(domain + "/robots.txt")
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try:
    rp.read()
    canFetchBool = rp.can_fetch("*", url)
except:
    canFetchBool = None

return canFetchBool

#web scraping function
def webscrape(sites):
    #checking for web scraping permission
    for website in sites:
        print(canFetch(website))

    #web scraping for each website
    for website in sites:
        r = requests.get(website)
        html_content = r.text
        soup = BeautifulSoup(html_content, 'html.parser')
        text = soup.get_text(separator="\n")
        lines = text.split()
        result = []
        for str in lines:
            if len(str) >= 3:
                result.append(str)
        print(len(result))

    #normalizing
    normalized_result = [word.lower().strip(string.punctuation) for word in result]

    #counting word frequency
    word_freq = Counter(normalized_result)
    print(word_freq)

    #sentiment analysis
    sid = SentimentIntensityAnalyzer()
    overall_text = " ".join(normalized_result)
    overall_scores = sid.polarity_scores(overall_text)

    #print results out formatted
    print(overall_scores)
    print("\nOverall Sentiment Analysis for the website:")
    print("Positive Score:", overall_scores['pos'])
    print("Neutral Score:", overall_scores['neu'])
    print("Negative Score:", overall_scores['neg'])

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print("Compound Score:", overall_scores['compound'])

websites = ['https://en.wikipedia.org/wiki/Chernobyl_disaster', 'https://world-nuclear.org/information-library/safety-and-security/safety-of-plants/chernobyl-accident', 'https://www.unscear.org/unscear/en/areas-of-work/chernobyl.html']
webscrape(websites)

#Conclusion:
#out of all of the websites documenting and stating facts about the chernobyl
#nuclear disaster, the one from
#britannica about the facts and documenting of what was going on during the
#disaster, who was working there,
#and more about the layout and how the disaster happened was more neutral

#the wikipedia website also documenting some facts about the chernobyl disaster
#was teh same amount of positivity
#but it was less meutral and more negative, as they put it in a storyline
#format instead of britannica which
#goes paragrpah by paragraph just describing different parts, but wikipedia has
#more documentation through storytelling

#the third website showing the geographical areas of which the disaster was
#affected on the land was
#surprisingly more negative probalby because it was showing the negative
#effects on areas and specified ones
#required more negative words than just doucmeting the facts and storytelling
#each characteristics abt the disaster

#from the word frequency in website 1, the chernobyl wikipedia website the
#notable frequencies that make sense as
#descriptors include "nuclear", "reactor", "retrieved", "original", "power",
#"radiation", and "april"
#thus, to answer the question of what caused the chernobyl disaster based on
#the article word frequency of each word,
#we can infer that it was related to the original nuclear reactor, which
#retrieved too much power and radiation in april
#and was archived at some point perhaps from the public but retrieved and dealt
#with later on in may to november

#from website 2's word frequency, the britannica website describing the
#chernobyl natural disaster, the initial efforts,
#the history behind the nuclear reactor, and the aftermath and policy
#implementations such as the chernobyl exclusion zone.
#most frequent descriptors in the article include 'chernobyl', accident,
#radiation, nuclear, reactor, report, health, fuel,

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#international, power, ukraine, safety, graphite, plant, and effects. thus,
↳based on the data analysis of this article,
#the causes and effects of the chernobyl nuclear disaster involve accidental
↳excessive power and nuclear radiation and fuel from
#the reactor causing health and safety reports and eventually the disaster
↳struck where it affected millions in ukraine, spanning
#a great area and hurting many plants or neighboring power plants with exposure
↳to high levels of graphite in the air (carried by wind)
#(which can cause chest pain and lung disease): this is very similar to website
↳1's conclusion in the fact of what caused the
#original disaster but this website went into more depth onto what the
↳disaster's effects did to the surrounding area and people

#and from website 3's word frequency, the united nations website describing the
↳disaster, mainly focusing on the geographical area
#and the environmental response from the disaster and the release of
↳radioactive nuclides and health effects, particularly how the
#victims dealt with it. most frequent descriptors of this disaster by this
↳article include accident, radiation, unscear, effects,
#report, health, exposure, doses, commitee, exposures, annex, thyroid, cancer,
↳most, affected, areas, general, workers, incidence,
#after, russian, more, exposed, increase, consequences, studies, due, belarus,
↳people, ukraine, 1986, radionuclides, fukushima, than.
#using this and other comparative words frequently listed, we can evaluate that
↳the cause adn more effects of the disaster from
#this may be along the lines of excessive radiation of radionuclides after the
↳disaster and this led to reports on health decline
#and exposure of aftereffects like thyroid cancer and lethal doses, most
↳affected people include general workers at the reactor
#at the area of incidence and countries affected include ukraine, russian,
↳belarus, etc and consequences are still increasing and
#studies are due into why this has happened and is comparable to the fukushima
↳disaster in the city of japan; this disaster was in 1986

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[nltk_data] Downloading package vader_lexicon to
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[nltk_data]      Package vader_lexicon is already up-to-date!

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True
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21877

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Overall Sentiment Analysis for the website:

Positive Score: 0.073

Neutral Score: 0.794

Negative Score: 0.133

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7960

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Overall Sentiment Analysis for the website:

Positive Score: 0.073

Neutral Score: 0.804

Negative Score: 0.123

Compound Score: -0.9999

2035

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Overall Sentiment Analysis for the website:

Positive Score: 0.053

Neutral Score: 0.775

Negative Score: 0.172

Compound Score: -0.9998

[ ]: