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import bs4
import requests
from urllib.request import urlopen as uReq
from bs4 import BeautifulSoup as soup
import os
import nltk
import nltk.corpus

#web scrapping
page_url = "https://www.livemint.com/Companies/BLvAa2vOFbCZoua8UpIliI/CBI-charges-Vijay-Mallya-with-fraud-criminal-conspiracy.html"
uClient = uReq(page_url)

page_soup = soup(uClient.read(), "html.parser")
uClient.close()

containers = page_soup.findAll("div", {"class": "contentSec"})
for x in containers:
    ans = x.find('p')
    scrapped_text=ans.text
    scrapped_text
    #-----

#tokenization and a basic check
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize

punctuations = '''!()-[]{};:'"\,<>./?@#$%^&*'\`~'''
for x in scrapped_text:
    if x in punctuations:
        scrapped_text_1 = scrapped_text.replace(x, "")

stop_words = set(stopwords.words('english'))

word_tokens = word_tokenize(scrapped_text_1)
filtered_sentence = []
for w in word_tokens:

    if w not in stop_words:
        filtered_sentence.append(w)

finalstr = ' '.join(map(str, filtered_sentence))
print(finalstr)
print('\n')

scrapped_tokens = word_tokenize(finalstr)
scrapped_tokens.sort()
sc_tkn1 = []
for item in scrapped_tokens:
    sc_tkn1.append(item.lower())
y = set(sc_tkn1)

```

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#my keyword inventory
list1 = ['scam','robbery','terrorism','weapons','war','breach','malicious','fake','murder','kill',
        'arrested','criminal','conspiracy',
        'judicial','custody','laundering','investigation','fraud','owed','charge','accused','arrests',
        'debt',
        'raids','charged','corruption','penal','misutilisation','misappropriation','penalty','non-bailable',
        'jail']

list3 = []
list3 = [x for x in list1 if x in sc_tkn1]
print("my keyword inventory--->",list1,'\n')
print("matched words--->",list3,'\n')
is_match = len(list3)/len(y)*100
print("% of negative word match--->","%.2f" % is_match,"%",'\n')

#using VADER Sentiment Analysis

from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer

count = 1
count2=0
s2 = ""
for w in scrapped_text:
    if w!=".":
        s2+=w
    elif w == '.':
        if len(s2) >50:
            print("sentence ",count," : ",s2,end=" ")
            print('\n')
            sid_obj = SentimentIntensityAnalyzer()
            sentiment_dict = sid_obj.polarity_scores(s2)
            print("Overall sentiment dictionary is : ", sentiment_dict)
            print("sentence was rated as ", sentiment_dict['neg']*100, "% Negative")
            print("sentence was rated as ", sentiment_dict['neu']*100, "% Neutral")
            print("sentence was rated as ", sentiment_dict['pos']*100, "% Positive")

            print("Sentence Overall Rated As", end = " ")

        # decide sentiment as positive, negative and neutral
        if sentiment_dict['compound'] >= 0.05 :
            print("Positive",'\n')

        elif sentiment_dict['compound'] <= -0.05 :
            print("Negative",'\n')
            count2+=1
        else :
            print("Neutral",'\n')
            count+=1
        s2=""
print("The number of negative sentences are :",count2)

```

Mumbai : The Central Bureau Investigation ( CBI ) charged Tuesday liquor baron Vijay Mallya fraud criminal conspiracy sought judicial custody former bankers Kingfisher Airlines ( KFA ) officials arrested day earlier connection grounded airline ' unpaid loans Rs950 crore owed IDBI Bank Mallya , chairman managing director KFA , among 11 named CBI charge sheet , others five retired bankers , four KFA officials airlines itselfThe bankers KFA executives accused arrested Prevention Corruption Criminal Conspiracy Act , Sections 13 ( 1 ) 13 ( 2 ) 420 Indian Penal Code , according charge sheet According CBI , bank officials entered criminal conspiracy KFA executives " misutilisation , misappropriation diversion funds " Vijay Mallya case : CBI seeks judicial custody ex-IDBI chairman , othersOn Monday evening , CBI sleuths arrested former chairman Yogesh Aggarwal four officials IDBI Bank Ltd , four Kingfisher Airlines executives alleged money laundering case involving UB Group chairman MallyaCBI named four bank officials BK Batra , SKV Srinivasan , OV Bundelu RS Sridhar The arrested Kingfisher Airlines executives former chief financial officer A Raghunathan , Shailesh Porkar , Amit Nadkarni AC ShahCBI believes matter relates three loans-of Rs750 crore , Rs200 crore Rs150 crore -given Kingfisher Airlines despite airline ' poor credit rating financial healthVijay Mallya case : CBI arrests former IDBI Bank chairman Yogesh Aggarwal , 7 othersCBI suspects loan amounts diverted abroad pay loans settle part debt Bank Baroda The total fraud amount Rs1,300 crore ( ( including interest penalty ) , according CBI counsel , said trail Rs261 crore traced back Mallya ' personal assets outside India According remand copy reviewed Mint , CBI looking detain suspects judicial custody believes might tamper evidence flee abroad It names Mallya accused absconder caseIn notification BSE , IDBI Bank said arrested bankers retired officials service bank The lender said previously clarified exchanges helping CBI investigation new informationCBI raids Vijay Mallya ' UB Group office money laundering caseCBI investigating loans given IDBI Bank Kingfisher group companies since 2014 secured non-bailable warrant Mallya case related alleged money laundering wilful default loans , Mint reported 22 NovemberMonday ' raids , followed arrests , came days Mallya associate firms received jolt debt recovery tribunal Bengaluru ruled favour public sector lender State Bank India-led consortium recover Rs6,20335 crore Mallya , former Rajya Sabha MP , fled UK last year According attorney general Mukul Rohatgi , Kingfisher Airlines owed Rs9,000 crore consortium tagged wilful defaulter KFA ' default ₹ 9000 crore loan investigated CBI separately jayshree @ livemintcom Share Via

my keyword inventory--> ['scam', 'robbery', 'terrorism', 'weapons', 'war', 'breach', 'malicious', 'fake', 'murder', 'kill', 'arrested', 'criminal', 'conspiracy', 'judicial', 'custody', 'laundering', 'investigation', 'fraud', 'owed', 'charge', 'accused', 'arrests', 'debt', 'raids', 'charged', 'corruption', 'penal', 'misutilisation', 'misappropriation', 'penalty', 'non-bailable', 'jail']

matched words--> ['arrested', 'criminal', 'conspiracy', 'judicial', 'custody', 'laundering', 'investigation', 'fraud', 'owed', 'charge', 'accused', 'arrests', 'debt', 'raids', 'charged', 'corruption', 'penal', 'misutilisation', 'misappropriation', 'penalty', 'non-bailable']

% of negative word match--> 8.82 %

sentence 1 :

Mumbai: The Central Bureau of Investigation (CBI) charged on Tuesday liquor baron Vijay Mallya with fraud and criminal conspiracy and sought judicial custody for former bankers and Kingfisher Airlines (KFA) officials arrested a day earlier in connection with the grounded airline's unpaid loans of over Rs950 crore that it owed to IDBI Bank

Overall sentiment dictionary is : {'neg': 0.248, 'neu': 0.752, 'pos': 0.0, 'compound': -0.9382}

sentence was rated as 24.8 % Negative  
sentence was rated as 75.2 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 2 : Mallya, who was chairman and managing director of KFA, was among the 11 named in the CBI charge sheet, the others being five retired bankers, four KFA officials and the airlines itself

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}  
sentence was rated as 0.0 % Negative  
sentence was rated as 100.0 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Neutral

sentence 3 : The bankers and KFA executives accused were arrested under the Prevention of Corruption and Criminal Conspiracy Act, Sections 13 (1) 13 (2) and 420 of the Indian Penal Code, according to the charge sheet

Overall sentiment dictionary is : {'neg': 0.287, 'neu': 0.713, 'pos': 0.0, 'compound': -0.9022}  
sentence was rated as 28.7 % Negative  
sentence was rated as 71.3 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 4 : According to CBI, the bank officials entered into criminal conspiracy with the KFA executives for "misutilisation, misappropriation and diversion of funds"

Overall sentiment dictionary is : {'neg': 0.264, 'neu': 0.736, 'pos': 0.0, 'compound': -0.7783}  
sentence was rated as 26.400000000000002 % Negative  
sentence was rated as 73.6 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 5 : Vijay Mallya case: CBI seeks judicial custody of ex-IDBI chairman, othersOn Monday evening, CBI sleuths arrested former chairman Yogesh Aggarwal and four other officials of IDBI Bank Ltd, and four Kingfisher Airlines executives in an alleged money laundering case involving UB Group chairman Mallya

Overall sentiment dictionary is : {'neg': 0.067, 'neu': 0.933, 'pos': 0.0, 'compound': -0.4767}  
sentence was rated as 6.7 % Negative  
sentence was rated as 93.30000000000001 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 6 : CBI named the four other bank officials as BK Batra, S

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}  
sentence was rated as 0.0 % Negative  
sentence was rated as 100.0 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Neutral

sentence 7 : KV Srinivasan, OV Bundelu and RS Sridhar The arrested Kingfisher Airlines executives are former chief financial officer A

Overall sentiment dictionary is : {'neg': 0.162, 'neu': 0.838, 'pos': 0.0, 'compound': -0.4767}  
sentence was rated as 16.2 % Negative  
sentence was rated as 83.8 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 8 : Raghunathan, Shailesh Porkar, Amit Nadkarni and AC

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}  
sentence was rated as 0.0 % Negative  
sentence was rated as 100.0 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Neutral

sentence 9 : ShahCBI believes that the matter relates to three loans—of Rs750 crore, Rs200 crore and Rs150 crore —given to Kingfisher Airlines despite the airline's poor credit rating and financial health

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 0.806, 'pos': 0.194, 'compound': 0.6433}  
sentence was rated as 0.0 % Negative  
sentence was rated as 80.60000000000001 % Neutral  
sentence was rated as 19.400000000000002 % Positive  
Sentence Overall Rated As Positive

sentence 10 : Vijay Mallya case: CBI arrests former IDBI Bank chairman Yogesh Aggarwal, 7 othersCBI suspects that the loan amounts were diverted abroad to pay for loans and to settle some part of a debt to Bank of Baroda

Overall sentiment dictionary is : {'neg': 0.229, 'neu': 0.771, 'pos': 0.0, 'compound': -0.802}  
sentence was rated as 22.900000000000002 % Negative  
sentence was rated as 77.10000000000001 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 11 : The total fraud amount is Rs1,300 crore ((including interest and penalty), according to the CBI counsel, who said a trail of Rs261 crore has been traced back to Mallya's personal assets outside India

Overall sentiment dictionary is : {'neg': 0.101, 'neu': 0.773, 'pos': 0.125, 'compound': -0.0258}  
sentence was rated as 10.100000000000001 % Negative  
sentence was rated as 77.3 % Neutral

sentence was rated as 12.5 % Positive  
Sentence Overall Rated As Neutral

sentence 12 : According to the remand copy reviewed by Mint, CBI is looking to detain the s  
uspects in judicial custody as it believes they might tamper with evidence or flee abroad

Overall sentiment dictionary is : {'neg': 0.161, 'neu': 0.839, 'pos': 0.0, 'compound': -0.6369  
}

sentence was rated as 16.1 % Negative  
sentence was rated as 83.89999999999999 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 13 : It names Mallya as an accused absconder in the case

Overall sentiment dictionary is : {'neg': 0.196, 'neu': 0.804, 'pos': 0.0, 'compound': -0.296}

sentence was rated as 19.6 % Negative  
sentence was rated as 80.4 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 14 : In a notification to the BSE, IDBI Bank said that all the arrested bankers are  
retired officials and not in service of the bank

Overall sentiment dictionary is : {'neg': 0.124, 'neu': 0.876, 'pos': 0.0, 'compound': -0.4767  
}

sentence was rated as 12.4 % Negative  
sentence was rated as 87.6 % Neutral  
sentence was rated as 0.0 % Positive  
Sentence Overall Rated As Negative

sentence 15 : The lender said that it had previously clarified to the exchanges that it was  
helping CBI with its investigation and that it has no new information

Overall sentiment dictionary is : {'neg': 0.077, 'neu': 0.845, 'pos': 0.077, 'compound': 0.0}

sentence was rated as 7.7 % Negative  
sentence was rated as 84.5 % Neutral  
sentence was rated as 7.7 % Positive  
Sentence Overall Rated As Neutral

sentence 16 : CBI raids Vijay Mallya's UB Group office in money laundering caseCBI has been  
investigating loans given by IDBI Bank to Kingfisher group companies since 2014 and secured a n  
on-bailable warrant against Mallya in a case related to alleged money laundering and wilful def  
ault of loans, Mint reported on 22 November

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 0.946, 'pos': 0.054, 'compound': 0.4019}

sentence was rated as 0.0 % Negative  
sentence was rated as 94.6 % Neutral  
sentence was rated as 5.4 % Positive  
Sentence Overall Rated As Positive

sentence 17 : Monday's raids, followed by the arrests, came days after Mallya and his associate firms received a jolt after a debt recovery tribunal in Bengaluru ruled in favour of the public sector lender State Bank of India-led consortium to recover Rs6,203

Overall sentiment dictionary is : {'neg': 0.125, 'neu': 0.808, 'pos': 0.067, 'compound': -0.3612}

sentence was rated as 12.5 % Negative

sentence was rated as 80.80000000000001 % Neutral

sentence was rated as 6.7 % Positive

Sentence Overall Rated As Negative

sentence 18 : 35 crore from Mallya, a former Rajya Sabha MP, who fled to the UK last year

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}

sentence was rated as 0.0 % Negative

sentence was rated as 100.0 % Neutral

sentence was rated as 0.0 % Positive

Sentence Overall Rated As Neutral

sentence 19 : According to attorney general Mukul Rohatgi, Kingfisher Airlines owed Rs9,000 crore to the consortium and had been tagged as a wilful defaulter

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}

sentence was rated as 0.0 % Negative

sentence was rated as 100.0 % Neutral

sentence was rated as 0.0 % Positive

Sentence Overall Rated As Neutral

sentence 20 : KFA's default on the ₹ 9000 crore loan is being investigated by CBI separately

Overall sentiment dictionary is : {'neg': 0.0, 'neu': 1.0, 'pos': 0.0, 'compound': 0.0}

sentence was rated as 0.0 % Negative

sentence was rated as 100.0 % Neutral

sentence was rated as 0.0 % Positive

Sentence Overall Rated As Neutral

The number of negative sentences are : 10