```
In [16]:
pip install rank bm25
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/publi
c/simple/
Collecting rank bm25
  Downloading rank bm25-0.2.2-py3-none-any.whl (8.6 kB)
Requirement already satisfied: numpy in /usr/local/lib/python3.8/dist-packages (from rank
bm25) (1.21.6)
Installing collected packages: rank-bm25
Successfully installed rank-bm25-0.2.2
In [24]:
print(file subset[2001])
/content/drive/MyDrive/tweet files/22916.txt
In [3]:
from google.colab import drive
drive.mount('/content/drive')
Mounted at /content/drive
In [34]:
# f=file subset[2000]
f = open(file subset[2000], 'r')
content = f.read()
tokenized corpus = content.split(" ")
print(tokenized corpus)
f.close()
["'#WorldPrematurityDay", 'my', 'little', 'miracle', 'born', 'at', '36', 'weeks', 'due',
'to', 'me', 'having', '\#preeclampsia', '\x91\x92\x99', "\n'SWACHNGO'"]
In [39]:
import os
from nltk.tokenize import word tokenize
# List the files in the directory
# file list = os.listdir('/content/drive/MyDrive/tweet files')
data dir = '/content/drive/MyDrive/tweet files/'
DATA SET DIR = data_dir
print('\nGetting List of text files from' + DATA SET DIR)
files = os.listdir(DATA SET DIR)
print((files[11]))
print('\nFile list retrieved from ' + DATA SET DIR)
Getting List of text files from/content/drive/MyDrive/tweet files/
414.txt
File list retrieved from /content/drive/MyDrive/tweet files/
In [70]:
from typing extensions import Concatenate
corpus = []
for f in files:
  strm = open(DATA SET DIR + f,'r')
  content = strm.read()
  words = content.split(" ")
```

corpus.append(' '.join(words))

strm.close()

```
In [71]:
print (corpus[11])
'This will be the best and i really love this i want this one so badly \n#JeepGrandCherok
ee #OIIIIIIO
'PatelDepika00'
In [83]:
from rank bm25 import BM250kapi #imp copy from here
def bm25 precision10(query, corpus):
   tokenized_corpus = [doc.split(" ") for doc in corpus]
   bm25 = BM250kapi(tokenized_corpus)
   tokenized_query = query.split(" ")
   doc scores = bm25.get scores(tokenized query)
   print("Top relevant docs are :")
   print(bm25.get top n(tokenized query, corpus, n=5))
   print("Top 10 relevant docs in the query :")
   docscores = list(doc scores)
   topten = sorted(range(len(docscores)), key=lambda i: docscores[i], reverse=True)[:10
]
   print (topten)
bm25_precision10("football", corpus)
Top relevant docs are :
['" only inter-school rink football tournament for girls U-16... Friday, Nov 18, 11am\\xe
2\x80\xa6 \n\"Roads turned into football arena during morning leg of th
e Maharashtra leg.\\nA fresh start to today\'s Padyatra.\\nOur\\xe2\\x80\\xa6 \n\'DrMusta
faAli81\'', '"Roads turned into football arena during morning leg of the Maharashtra leg.
\\nA fresh start to today\'s Padyatra.\\nOur\\xe2\\x80\\xa6 \n\'galshikla\'', '"#INDvsNZ\
\nMan\'s IPL has come, Women\'s IPL has come, Now football IPL should come.\\n
brating ur 60th Anniversary today! #Shemaroo60YearsYoung \n'isakshi12'"]
Top 10 relevant docs in the query:
[7663, 6048, 6052, 1475, 0, 1, 2, 3, 4, 5]
In [84]:
pip install PySimpleGUI
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/publi
c/simple/
Collecting PySimpleGUI
 Downloading PySimpleGUI-4.60.4-py3-none-any.whl (509 kB)
                                   | 509 kB 8.9 MB/s
Installing collected packages: PySimpleGUI
Successfully installed PySimpleGUI-4.60.4
In [89]:
import matplotlib
matplotlib.use('Agg')
In [ ]:
import PySimpleGUI as sq
layout = [
   [sg.VPush()],
    [sg.Text("Search: "), sg.Input(key='INPUT')],
    [sg.Text("", size=(0, 1), key='OUTPUT'), ],
   [sg.VPush()],
window = sg.Window("Tweets Database", layout, size=(1400, 600), element_justification='c
', background color='white')
```

```
while True:
         event, values = window.read()
         if event == sg.WINDOW CLOSED:
                 break
         elif event == 'Ok':
                 name = values['INPUT']
                  tokenized query = name.split(" ")
                  doc scores = bm25.get scores(tokenized query)
                  window['OUTPUT'].update(value=bm25.get top n(tokenized query, corpus, n=1))
window.close()
In [92]:
pip install aiml
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/publi
c/simple/
Collecting aiml
    Downloading aiml-0.9.2-py2.py3-none-any.whl (2.1 MB)
                                                                                      \mid 2.1 MB 7.5 MB/s
{\tt Requirement\ already\ satisfied:\ setuptools\ in\ /usr/local/lib/python 3.8/dist-packages\ (from a constant of the consta
aiml) (57.4.0)
Installing collected packages: aiml
Successfully installed aiml-0.9.2
In [97]:
bm25 = BM250kapi(corpus)
scores = bm25.get scores("football")
ranked files = sorted(zip(file list, scores), key=lambda x: x[1], reverse=True)
for file, score in ranked_files[:10]:
    print(f'{file}: {score}')
/content/drive/MyDrive/tweet files/9049.txt: 3.5242713777647525
/content/drive/MyDrive/tweet_files/9044.txt: 3.52244957956026
/content/drive/MyDrive/tweet_files/8858.txt: 3.5214510814521356
/content/drive/MyDrive/tweet_files/6610.txt: 3.519589095901893
/content/drive/MyDrive/tweet_files/7523.txt: 3.513014478679762
/content/drive/MyDrive/tweet_files/22944.txt: 3.5117797323135287
/content/drive/MyDrive/tweet_files/18506.txt: 3.511468465610529
/content/drive/MyDrive/tweet files/19431.txt: 3.5047138096368933
/content/drive/MyDrive/tweet files/18728.txt: 3.5034764789201676
/content/drive/MyDrive/tweet files/8904.txt: 3.503263648604668
In [ ]:
```