**Data Mining Assignment 5**

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**Project Aim :** Use Naïve-Bayes classifier to classify text files into 3 categories – ARXIV,JDM,PLOS

**Design and Implementation:**

We are told to divide the data into 2 equal parts, that is 50% of the text files were to be used to train the classifier and the rest of the 50% of the text files were to be used to test the classifier. So I took the first 150 articles(in the order displayed by the file system) of each type ARXIV,JDM,PLOS to train the classifier, and I take the last 150 articles(in the order displayed by the file system) to test the classifier. Then, I generate the vocabulary by reading each file and then appending them to a vocabulary array. And then I remove all the stop-words from the vocabulary, by reading each word from the stoplist.txt. I then create a 2D array named classifierdataarray of size 451 \* 20761, where each row would represent the file that is used for training, and 20761 is the vocabulary size + 2(1 for the classifier bit and 1 because I prefer to use array index from 1 in this assignment). Then I start to classify the remaining data by reading file one by one and storing in testingtemparray. The only difference between testingtemparray and classifierdataarray row elements is that there is no classifier bit in testingtemparray. And then I calculate the probability of each article belonging in one of the classes – arxiv,jdm,plos. The highest respective counter means that article probably classifies into that article class.

**Python Code:**

**import** os  
**import** time  
  
start\_time = time.clock()  
  
folder\_arxiv = input(**'Enter the arxiv folder location (Example : C:/abc/arxiv):'**)  
folder\_jdm = input(**'Enter the jdm folder location (Example : C:/abc/jdm):'**)  
folder\_plos = input(**'Enter the plos folder location (Example : C:/abc/plos):'**)  
stopfilelocation = input(**'Enter the stoplist.txt file location(Example : C:/abc/stoplist.txt):'**)  
  
  
*#First import all the training data from the arxiv folder  
#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/arxiv'*i = 0  
**for** filename **in** os.listdir(folder\_arxiv):  
 **if** i<=149:  
 infilename = os.path.join(folder\_arxiv, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 vocabulary = infile.read().split()  
 i = i + 1  
  
*#print(vocabulary)  
#print(len(vocabulary))  
  
# Now we import all the training data from the jdm folder  
#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/jdm'*i=0  
**for** filename **in** os.listdir(folder\_jdm):  
 **if** i<=149:  
 infilename = os.path.join(folder\_jdm, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 vocabulary += infile.read().split()  
 i = i + 1  
  
*#print(vocabulary)  
#print(len(vocabulary))  
  
# Now we import all the training data from the plos folder  
#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/plos'*i = 0  
**for** filename **in** os.listdir(folder\_plos):  
 **if** i<=149:  
 infilename = os.path.join(folder\_plos, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 vocabulary += infile.read().split()  
 i = i + 1  
  
*#print(vocabulary)  
#print(len(vocabulary))  
  
# Now we import the stop text file into a new array  
  
#infile = open('C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/stoplist.txt', 'r', encoding='UTF-8', errors='ignore')*infile = open(stopfilelocation, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
stopfilearray = infile.read().split()  
  
*#print(stopfilearray)  
  
#Now we remove all the elements in the stopfile array from the vocabulary*vocabularycopy = [x **for** x **in** vocabulary **if** x **not in** stopfilearray]  
vocabulary = vocabularycopy  
vocabulary = sorted(vocabulary)  
vocabulary = list(set(vocabulary))  
*#print(vocabulary)*print(**'Length of vocabulary after stop words removed : '**,len(vocabulary))  
  
*#Now we convert the input articles into a set of features*w, h = 20761, 451;  
classifierdataarray = [[]]  
classifierdataarray = [[0 **for** x **in** range(w)] **for** y **in** range(h)]  
  
*#print(classifierdataarray[450])  
  
#classifierdataarray = [[0] \* 167346] \* 450*print(**'Building feature set'**)  
  
m = 1  
  
*#We now import the arxiv articles and create a feature vector of them, 450 subarrays and 167344 + 1 = 167345 in each subarray  
#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/arxiv'*i = 1  
j = 1  
**for** filename **in** os.listdir(folder\_arxiv):  
 j = 1  
 **if** i<=150:  
 infilename = os.path.join(folder\_arxiv, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 *# Take the article and check if it contains words from vocabulary* articletemparray = infile.read().split()  
 articletemparray = sorted(articletemparray)  
 print(**'ARXIV file number i = '**,i)  
 *#print('m = ',m)* **for** vocabulary\_item **in** vocabulary:  
 *# print('j = ',j)* **if** vocabulary\_item **in** articletemparray:  
 classifierdataarray[m][j] = 1  
 **else**:  
 classifierdataarray[m][j] = 0  
 j = j + 1  
  
 classifierdataarray[m][20760] = **'a'** i = i + 1  
 m = m + 1  
  
*#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/jdm'*i = 1  
j = 1  
m = 151  
**for** filename **in** os.listdir(folder\_jdm):  
 j = 1  
 **if** i<=150:  
 infilename = os.path.join(folder\_jdm, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 *# Take the article and check if it contains words from vocabulary* articletemparray = infile.read().split()  
 articletemparray = sorted(articletemparray)  
 print(**'JDM File Number i = '**,i)  
 *#print('m = ', m)* **for** vocabulary\_item **in** vocabulary:  
 *# print('j = ',j)* **if** vocabulary\_item **in** articletemparray:  
 classifierdataarray[m][j] = 1  
 **else**:  
 classifierdataarray[m][j] = 0  
 j = j + 1  
  
 classifierdataarray[m][20760] = **'j'** i = i + 1  
 m = m + 1  
  
*#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/plos'*i = 1  
j = 1  
m = 301  
**for** filename **in** os.listdir(folder\_plos):  
 j = 1  
 **if** i<=150:  
 infilename = os.path.join(folder\_plos, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 *# Take the article and check if it contains words from vocabulary* articletemparray = infile.read().split()  
 articletemparray = sorted(articletemparray)  
 print(**'PLOS file number i = '**,i)  
 *#print('m = ', m)* **for** vocabulary\_item **in** vocabulary:  
 *# print('j = ',j)* **if** vocabulary\_item **in** articletemparray:  
 classifierdataarray[m][j] = 1  
 **else**:  
 classifierdataarray[m][j] = 0  
 j = j + 1  
  
 *#print('m = ',m)* classifierdataarray[m][20760] = **'p'** i = i + 1  
 **if** m <= 449:  
 m = m + 1  
 **else**:  
 **break**print(**'Finished building feature set'**)  
*#print(classifierdataarray)  
  
  
#Now we need to classify the testing data according to the training data*print(**'Started Classifying data'**)  
arxiv\_total\_predictions = 450  
arxiv\_correct\_predictions = 0  
jdm\_total\_predictions = 450  
jdm\_correct\_predictions = 0  
plos\_total\_predictions = 450  
plos\_correct\_predictions = 0  
  
  
*#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/arxiv'*width = 167345  
testingtemparray = [0 **for** x **in** range(width)]  
*#print('length of testingtemparray is ',len(testingtemparray))  
#print('testingtemparray[972] is ',testingtemparray[972])*i = 1  
j = 1  
**for** filename **in** os.listdir(folder\_arxiv):  
 **if** i >= 151 **and** i <= 300:  
 arxiv\_counter = 0  
 jdm\_counter = 0  
 plos\_counter = 0  
 j = 1  
 print(**'-----------------------------------------'**)  
 *#print('Testing file number i = ', i)* print(**'Actual Class : ARXIV'**)  
 infilename = os.path.join(folder\_arxiv, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 inputtemparray = infile.read().split()  
 inputtemparray = sorted(inputtemparray)  
 **for** vocabulary\_item **in** vocabulary:  
 *#print('j = ',j)* **if** vocabulary\_item **in** inputtemparray:  
 testingtemparray[j] = 1  
 **else**:  
 testingtemparray[j] = 0  
 **if** j<=167344:  
 j = j + 1  
 **else**:  
 j = j  
  
 **for** k **in** range(1,150):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 arxiv\_counter = arxiv\_counter + 1  
 **for** k **in** range(151,300):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 jdm\_counter = jdm\_counter + 1  
 **for** k **in** range(301,450):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 plos\_counter = plos\_counter + 1  
  
 *#print('arxiv counter : ',arxiv\_counter)  
 #print('jdm counter :',jdm\_counter)  
 #print('plos counter :', plos\_counter)* **if** arxiv\_counter > jdm\_counter **and** arxiv\_counter > plos\_counter :  
 largest = arxiv\_counter  
 print(**'Classified Class : ARXIV'**)  
 arxiv\_correct\_predictions = arxiv\_correct\_predictions + 1  
 **elif** jdm\_counter > arxiv\_counter **and** jdm\_counter > plos\_counter :  
 largest = jdm\_counter  
 print(**'Classified Class : JDM'**)  
 **else**:  
 largest = plos\_counter  
 print(**'Classified Class : PLOS'**)  
  
 **else**:  
 i = i  
  
 i = i + 1  
  
*#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/jdm'*width = 167345  
testingtemparray = [0 **for** x **in** range(width)]  
*#print('length of testingtemparray is ',len(testingtemparray))  
#print('testingtemparray[972] is ',testingtemparray[972])*i = 1  
j = 1  
**for** filename **in** os.listdir(folder\_jdm):  
 **if** i >= 151 **and** i <= 300:  
 arxiv\_counter = 0  
 jdm\_counter = 0  
 plos\_counter = 0  
 j = 1  
 print(**'-----------------------------------------'**)  
 *#print('Testing file number i = ', i)* print(**'Actual Class : JDM'**)  
 infilename = os.path.join(folder\_jdm, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 inputtemparray = infile.read().split()  
 inputtemparray = sorted(inputtemparray)  
 **for** vocabulary\_item **in** vocabulary:  
 *#print('j = ',j)* **if** vocabulary\_item **in** inputtemparray:  
 testingtemparray[j] = 1  
 **else**:  
 testingtemparray[j] = 0  
 **if** j<=167344:  
 j = j + 1  
 **else**:  
 j = j  
  
 **for** k **in** range(1,150):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 arxiv\_counter = arxiv\_counter + 1  
 **for** k **in** range(151,300):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 jdm\_counter = jdm\_counter + 1  
 **for** k **in** range(301,450):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 plos\_counter = plos\_counter + 1  
  
 *#print('arxiv counter : ',arxiv\_counter)  
 #print('jdm counter :',jdm\_counter)  
 #print('plos counter :', plos\_counter)* **if** arxiv\_counter > jdm\_counter **and** arxiv\_counter > plos\_counter :  
 largest = arxiv\_counter  
 print(**'Classified Class : ARXIV'**)  
 **elif** jdm\_counter > arxiv\_counter **and** jdm\_counter > plos\_counter :  
 largest = jdm\_counter  
 print(**'Classified Class : JDM'**)  
 jdm\_correct\_predictions = jdm\_correct\_predictions + 1  
 **else**:  
 largest = plos\_counter  
 print(**'Classified Class : PLOS'**)  
  
 **else**:  
 i = i  
  
 i = i + 1  
  
*#folder = 'C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/plos'*width = 167345  
testingtemparray = [0 **for** x **in** range(width)]  
*#print('length of testingtemparray is ',len(testingtemparray))  
#print('testingtemparray[972] is ',testingtemparray[972])*i = 1  
j = 1  
**for** filename **in** os.listdir(folder\_plos):  
 **if** i >= 151 **and** i <= 300:  
 arxiv\_counter = 0  
 jdm\_counter = 0  
 plos\_counter = 0  
 j = 1  
 print(**'-----------------------------------------'**)  
 *#print('Testing file number i = ', i)* print(**'Actual Class : PLOS'**)  
 infilename = os.path.join(folder\_plos, filename)  
 infile = open(infilename, **'r'**, encoding=**'UTF-8'**, errors=**'ignore'**)  
 inputtemparray = infile.read().split()  
 inputtemparray = sorted(inputtemparray)  
 **for** vocabulary\_item **in** vocabulary:  
 *#print('j = ',j)* **if** vocabulary\_item **in** inputtemparray:  
 testingtemparray[j] = 1  
 **else**:  
 testingtemparray[j] = 0  
 **if** j<=167344:  
 j = j + 1  
 **else**:  
 j = j  
  
 **for** k **in** range(1,150):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 arxiv\_counter = arxiv\_counter + 1  
 **for** k **in** range(151,300):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 jdm\_counter = jdm\_counter + 1  
 **for** k **in** range(301,450):  
 **for** n **in** range(1,20759):  
 **if** classifierdataarray[k][n] == 1 **and** testingtemparray[n] == 1:  
 plos\_counter = plos\_counter + 1  
  
 *#print('arxiv counter : ',arxiv\_counter)  
 #print('jdm counter :',jdm\_counter)  
 #print('plos counter :', plos\_counter)* **if** arxiv\_counter > jdm\_counter **and** arxiv\_counter > plos\_counter :  
 largest = arxiv\_counter  
 print(**'Classified Class : ARXIV'**)  
 **elif** jdm\_counter > arxiv\_counter **and** jdm\_counter > plos\_counter :  
 largest = jdm\_counter  
 print(**'Classified Class : JDM'**)  
 **else**:  
 largest = plos\_counter  
 print(**'Classified Class : PLOS'**)  
 plos\_correct\_predictions = plos\_correct\_predictions + 1  
  
 **else**:  
 i = i  
  
 i = i + 1  
  
print(**'ARXIV Total Predictions = '**,arxiv\_total\_predictions)  
print(**'ARXIV Correct Classifications ='**,arxiv\_correct\_predictions)  
print(**'ARXIV Accuracy Percentage = '**,(arxiv\_correct\_predictions/arxiv\_total\_predictions) \* 100)  
print(**'JDM Total Predictions = '**,jdm\_total\_predictions)  
print(**'JDM Correct Classifications = '**,jdm\_correct\_predictions)  
print(**'JDM Accuracy Percentage = '**,(jdm\_correct\_predictions/jdm\_total\_predictions) \* 100)  
print(**'PLOS Total Predictions = '**,plos\_total\_predictions)  
print(**'PLOS Correct Classifications ='**,plos\_correct\_predictions)  
print(**'PLOS Accuracy Percentage = '**,(plos\_correct\_predictions/plos\_total\_predictions) \* 100)  
  
print(time.clock() - start\_time, **"seconds"**)

**Output:**

C:\Python35\python.exe "C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/assignment5final.py"

Enter the arxiv folder location (Example : C:/abc/arxiv):C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/arxiv

Enter the jdm folder location (Example : C:/abc/jdm):C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/jdm

Enter the plos folder location (Example : C:/abc/plos):C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/articles/plos

Enter the stoplist.txt file location(Example : C:/abc/stoplist.txt):C:/Users/Venkatesh Suvarna/PycharmProjects/DataMiningAssignment5/Assignment5InputFiles/Assignment5/stoplist.txt

Length of vocabulary after stop words removed : 20759

Building feature set

ARXIV file number i = 1

ARXIV file number i = 2

ARXIV file number i = 3

ARXIV file number i = 4

ARXIV file number i = 5

ARXIV file number i = 6

ARXIV file number i = 7

ARXIV file number i = 8

ARXIV file number i = 9

ARXIV file number i = 10

ARXIV file number i = 11

ARXIV file number i = 12

ARXIV file number i = 13

ARXIV file number i = 14

ARXIV file number i = 15

ARXIV file number i = 16

ARXIV file number i = 17

ARXIV file number i = 18

ARXIV file number i = 19

ARXIV file number i = 20

ARXIV file number i = 21

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ARXIV file number i = 148

ARXIV file number i = 149

ARXIV file number i = 150

JDM File Number i = 1

JDM File Number i = 2

JDM File Number i = 3

JDM File Number i = 4

JDM File Number i = 5

JDM File Number i = 6

JDM File Number i = 7

JDM File Number i = 8

JDM File Number i = 9

JDM File Number i = 10

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ARXIV Total Predictions = 450

ARXIV Correct Classifications = 134

ARXIV Accuracy Percentage = 29.777777777777775

JDM Total Predictions = 450

JDM Correct Classifications = 146

JDM Accuracy Percentage = 32.44444444444444

PLOS Total Predictions = 450

PLOS Correct Classifications = 150

PLOS Accuracy Percentage = 33.33333333333333

874.0356662010203 seconds