newsgroupstextclassification

January 31, 2024

0.1 Importing modules

[1]: import numpy as np

```
import pandas as pd
      import os
     /usr/local/lib/python3.6/importlib/_bootstrap.py:219: RuntimeWarning:
     numpy.dtype size changed, may indicate binary incompatibility. Expected 96, got
       return f(*args, **kwds)
     /usr/local/lib/python3.6/importlib/_bootstrap.py:219: RuntimeWarning:
     numpy.dtype size changed, may indicate binary incompatibility. Expected 96, got
     88
       return f(*args, **kwds)
     0.2 Listing folders
[22]: folders=sorted(os.listdir(os.path.join(DATA_DIR))) # os.listdir gives a list of
       ⇔all files in this path
      folders
[22]: ['alt.atheism',
       'comp.graphics',
       'comp.os.ms-windows.misc',
       'comp.sys.ibm.pc.hardware',
       'comp.sys.mac.hardware',
       'comp.windows.x',
       'misc.forsale',
       'rec.autos',
       'rec.motorcycles',
       'rec.sport.baseball',
       'rec.sport.hockey',
       'sci.crypt',
       'sci.electronics',
       'sci.med',
       'sci.space',
       'soc.religion.christian',
       'talk.politics.guns',
```

for file in os.listdir(os.path.join(DATA_DIR,folder)):

data[folder].append(opened_file.read())

1000

0.4 Building vocabulary (feature set)

> Creating list of stop words

print(len(data[folders[1]]))

for folder in folders:
 data[folder]=[]

→opened file:

```
[30]: from nltk.corpus import stopwords # Importing list of stop words from nltk from string import punctuation # Importing list of punctuations from string punctuations=list(punctuation) stopWords=stopwords.words('english') stopWords+=punctuations # Combined list of stop words
```

with open(os.path.join(DATA_DIR,folder,file),encoding='latin-1') as__

> Own list of stop words

```
> Building Vocab
```

[75]: 390170

```
[55]: # Sort the dictionary based on frequency of each 'possible' vocabulary word import operator sorted_vocab=sorted(vocab.items(),key=operator.itemgetter(1),reverse=True)
```

0.4.1 Building final feature list from vocab

```
[57]: # Choosing top 2000 vocab words as features
    feature_list=[]
    for key in sorted_vocab:
        feature_list.append(key[0])
    feature_list=feature_list[0:2000] # K = 2000 (number of words in vocab)
```

0.4.2 Transforming data into X and Y

```
[140]: Y=[] # list of newsgroups
for i in range(len(data)):
    for doc in data[folders[i]]:
        Y.append(folders[i])
Y=np.array(Y)
```

```
[94]: type(data[folders[1]])
```

[94]: list

```
[133]: # Each row : one doc and each column : one word from feature_list
    # Columns headers will be the names of features
    df = pd.DataFrame(columns = feature_list)

for folder in folders:
     # Insert each file as a new row
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[133]:	going	something	computer	system	might	please	reply-to:	using	\
0	1.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	
3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	

4	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
10	0.0	2.0	0.0	1.0	1.0	0.0	0.0	0.0
11	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
12	1.0	1.0	2.0	0.0	3.0	0.0	0.0	1.0
13	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	3.0	1.0	0.0	0.0	1.0
19	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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24	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
26	0.0	0.0	1.0	0.0	1.0	1.0	0.0	0.0
27	0.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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19967	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19968	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
19969	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
19970	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
19971	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19972	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0
19973	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19974	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
19975	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19976	0.0	0.0	0.0	0.0	1.0	0.0	0.0	2.0
19977	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19978	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
19979	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
19980	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
19981	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19982	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19983	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19984	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19985	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
19986	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0
19900	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0

19987	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0
19988	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0
19989	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0
19990	0.0		0.0	1.0	0.0	0.0	0.0		1.0	0.0
19991	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0
19992	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0
19993	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0
19994	1.0		0.0	1.0	0.0	0.0	0.0		0.0	0.0
19995	0.0		1.0	0.0	0.0	0.0	0.0		0.0	0.0
19996	0.0		0.0	0.0	0.0	0.0	1.0		0.0	0.0
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3	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	1.0	
5	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
12	1.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
14	1.0	2.0	•••	C	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
21	1.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
24	0.0	1.0	•••	C	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	•••	C	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0		C	0.0	0.0	0.0	0.0	0.0	
•••					•••					
19967	0.0	0.0	•••		0.0	0.0	0.0		0.0	
19968	0.0	0.0	•••		0.0	0.0	0.0		0.0	
19969	1.0	0.0	•••		0.0	0.0	0.0	0.0	0.0	
19970	1.0	0.0		C	0.0	0.0	0.0	0.0	0.0	

19971	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19972	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19973	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19974	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19975	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19976	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19977	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19978	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19979	1.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19980	2.0	1.0	•••	0.0	0.0	0.0	0.0	0.0
19981	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19982	1.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19983	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19984	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19985	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19986	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19987	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19988	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19989	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19990	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19991	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19992	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19993	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19994	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19995	0.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
19996	1.0	0.0	•••	0.0	0.0	0.0	0.0	0.0
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2	0.0	0.0	0.0	0.0	0.0			
3	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0			
6	0.0	0.0	0.0	0.0	0.0			
7	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.0	0.0	0.0			
10	1.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.0	0.0			
16	0.0	1.0	0.0	0.0	0.0			
17	0.0	0.0	0.0	0.0	0.0			
18	0.0	0.0	0.0	0.0	0.0			

19	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	1.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0
•••				•••	
19967	0.0	0.0	0.0	0.0	0.0
19968	0.0	0.0	0.0	0.0	0.0
19969	0.0	0.0	0.0	0.0	0.0
19970	0.0	0.0	0.0	0.0	0.0
19971	0.0	0.0	0.0	1.0	0.0
19972	0.0	0.0	0.0	0.0	0.0
19973	0.0	0.0	0.0	0.0	0.0
19974	0.0	0.0	0.0	0.0	0.0
19975	0.0	0.0	0.0	0.0	0.0
19976	0.0	0.0	0.0	0.0	0.0
19977	0.0	0.0	0.0	0.0	0.0
19978	0.0	0.0	0.0	0.0	0.0
19979	0.0	0.0	0.0	0.0	0.0
19980	0.0	0.0	0.0	0.0	0.0
19981	0.0	0.0	0.0	0.0	0.0
19982	0.0	0.0	0.0	0.0	0.0
19983	0.0	0.0	0.0	0.0	0.0
19984	0.0	0.0	0.0	0.0	0.0
19985	0.0	0.0	0.0	0.0	0.0
19986	0.0	0.0	0.0	0.0	0.0
19987	0.0	0.0	0.0	0.0	0.0
19988	0.0	0.0	0.0	0.0	0.0
19989	0.0	0.0	0.0	0.0	0.0
19990	0.0	0.0	0.0	0.0	0.0
19991	0.0	0.0	0.0	0.0	0.0
19992	0.0	0.0	0.0	0.0	0.0
19993	0.0	0.0	0.0	0.0	0.0
19994	0.0	0.0	0.0	0.0	0.0
19995	0.0	0.0	0.0	0.0	0.0
19996	0.0	0.0	0.0	0.0	0.0

[19997 rows x 2000 columns]

[134]: X=df.values

0.4.3 Splitting X and Y into training and testing data

```
[192]: from sklearn.model_selection import train_test_split x_train,x_test,y_train,y_test=train_test_split(X,Y,random_state=0,test_size=0.

425)
```

0.4.4 Using the inbuilt Multinomial Naive Bayes

```
[193]: from sklearn.naive_bayes import MultinomialNB clf=MultinomialNB() clf.fit(x_train,y_train)
```

[193]: MultinomialNB(alpha=1.0, class_prior=None, fit_prior=True)

```
[194]: clf.score(x_test,y_test)
```

[194]: 0.8476

0.4.5 Implementing Multinomial Naive Bayes from scratch

```
[195]: def fit(x_train,y_train):
    result={}
    result["total_data"]=len(y_train)
    class_labels=set(y_train)
    for current_label in class_labels:
        result[current_label]={}
        current_rows=(y_train==current_label)
        x_train_current=x_train[current_rows]
        y_train_current=y_train[current_rows]
        total_words=0
        for i in range(len(feature_list)):
            result[current_label][feature_list[i]]=x_train_current[:,i].sum()
            total_words+=x_train_current[:,i].sum()
        result[current_label]["total_count"]=total_words
        return result
```

```
[196]: | def probability(x,dictionary,current_class):
           output=np.log(dictionary[current_class]["total_count"])-np.
        →log(dictionary["total_data"])
           for i in range(len(feature list)):
               current_word_count=dictionary[current_class][feature_list[i]]+1
        ototal_word_count=dictionary[current_class]["total_count"]+len(feature_list)
               current_word_probability=np.log(current_word_count)-np.
        →log(total_word_count)
               for j in range(int(x[i])): # if the frequency of word in test data\Box
        ⇔point is zero then we wont consider it.
                   output+=current_word_probability
           return output
[211]: def predictSingleClass(x,dictionary):
           best class=-1000
           best prob=-1000
           firstRun=True
           possible_classes=dictionary.keys()
           for current_class in possible_classes:
               if current_class=="total_data":
                   continue
               current_class_probability=probability(x,dictionary,current_class)
               if(firstRun==True or current_class_probability>best_prob):
                   best_class=current_class
                   best_prob=current_class_probability
               firstRun=False
           return best_class
[212]: def predict(X_test, dictionary):
           Y pred=[]
           num = 0
           for x in X_test:
               Y_pred.append(predictSingleClass(x,dictionary))
           return Y_pred
[213]: dictionary=fit(x_train,y_train)
[214]: y_pred=predict(x_test, dictionary)
[215]: from sklearn.metrics import classification_report,confusion_matrix
       print(confusion_matrix(y_pred,y_test))
       print(classification_report(y_pred,y_test))
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		r	ec.r	notoi				0.9			0.89		0.9			296		
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rec.sport.baseball	0.98	0.95	0.97	256
rec.sport.hockey	0.97	0.95	0.96	235
sci.crypt	0.91	0.92	0.92	230
sci.electronics	0.86	0.83	0.85	252
sci.med	0.87	0.90	0.88	249
sci.space	0.88	0.92	0.90	234
soc.religion.christian	0.99	0.93	0.96	270
talk.politics.guns	0.83	0.70	0.76	294
talk.politics.mideast	0.86	0.92	0.89	262
talk.politics.misc	0.56	0.68	0.61	216
talk.religion.misc	0.45	0.67	0.54	159
avg / total	0.86	0.85	0.85	5000

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