F >		
Date	 	

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Assuming a set of documents that need so be classified, use the naire Bayesian (lassifier model to perform this tasse Built-in jaro classes / LPI can be used be write program. You can use jaro/ python me library classes / LPI

mig * pd. rend_uv (' (: N usus II P v Bhat II Duktop II

uvfiles II sampledala c. uv', name = ['musage',

print ('Total instanus in me datasus:', mig. shape [0])
mig ['labulnum'] * mig. labul. map ({'pos':1, 'neg':0])
x * mig. message

Y = mig. labelnum

print ('In The message and its label of first 5 instances

are listed below ')

x5, y5 = x [0:5], msg. lobu [0:5]

(of x, y in zip (x5, y5):

from sulcorn. modu sulction impost train tut split
x train, x lut, y train, y lut - train lut split (x, y)
print ('In Dataset is split into Training and

print ('Total training instances:', xtrain. shape[o])
print ('Total testing instances:', xtest. shape[o])
from sulcorn. [coture extraction. text impost

CountYutolizer

count vert = (ount Vertolizer()

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xliain-dem = count-vui. fil leansform (xtrain) Ilut - dem = count - vut. le ons form (Ilut) print (In Total Jeolus extracted using countre-- tolixol: ', x liain_dim. shopers) print ('In Feature for four 5 training instances are listed below' dj - pd. Dala Frame (xtrain dem. toarray 1), columns: count-vut. gel-feature nomes() print (d/10:57) from sulcarn. naire-bayes impost musu nomialNB (1) = MultinomiolNB(). fit (atrain - dtm, ytrain) predicted = (1). predict (xlut-dtm) print ('In classification survey of Luting samples are given below') for doc, p in zip (xtut, predicted): pred = 'pos' if p==1 else 'neg' print ('1.5 -> 1.5' 1. (doc, pred)) from selean import metrice print ('In Surracy metrics') print ('bureacy of the classifier is ', metrice accuracy swelytut, predicted) print ('Recall:', melrics. ruall-score (ytest, predicted), 'In Precision: ', metrics. precision sure (ytest predicted)) print (' (onfusion modriar') print (metrics. confusion_matrix (ytust, predicted))

	for
7 love that jake with	piss
4 1 P C P 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	for
of full very good brown	f us
Thu u my but	108
and an nucleonic Date	nig
7 do not lille that startage	neg
7 m lined of the	nig
7 can't dial with the	neg
He is my swon inting	neg
my box a horsuble	609
2/ 00 04/(10/10)	nig
I do not like the the	pos
I love to donce	neg
d and fill and	pol
	neg
	pos
A LIVI DO DE LA COLLEGIA DEL COLLEGIA DEL COLLEGIA DE LA COLLEGIA	· · · · · · · · · · · · · · · · · · ·
7 wins 10 my inimize house roday	nig

out fut +

Total instances in the dataset : 18

The message and is sold of jour 5 instances are suited below

I some this sand with, pos

This is on amosting place, for

```
I feel very provid about these bees, pos
This is my but wold, pol
what an awyome www. pos
Dalaset is split into Training and Tuting samples
Total Iraining instances: 13
Total luting instances: 5
Total features extracted using countries 208:39
Features for just 5 training instances are listed below
 am amoring an and awwome bad but eon done.
                   0 0 0 0 ...
0 0 0 1 0 1
1000000
0 1 0 1 0 0 0 0
     1 10000000
     the this
 fired to today view wint what with work
   0
       0 0 0 0 0 0
      0 0
           0
        0 0
```

[5 rows x 38 columns] Classification results of Lesting samples are given belong 7 feel very good about these bus - neg my boss is hossible -> pos He is my swoon enemy -> pos We will have good fun tomosnow - neg what a great holiday -> pos duracy metrics Accuracy of the classifier is 0.2 Recale: 0.333333333333333 0.333333333333333 conjusion matrix

[[02]