pt. No. 06 Page No. 15	
Assuming a set of documents that need to classifier model to perform this task. Built- in Java Classer I API can be used to write the program. Calculate the accurracy, precision and recall for your dataset.	Ricd
imposit pandas as pd msg = pd. snead_csv ('C: lusers luser) Desktop ML Lab lab6.csv') names = l'message;' print ('Total instances in the dataset; ", msg. shape [0]	label])
msg['labelnum']=msg.label.map({'pos:1 'neg':0}) X-msg.message Y=msg.labelnum pnint ("In The message and its label of finst 5 instan ane listed below') X5, Y5 = ×[0:5], msg.label [0:5] fon 7, y in 2ip (x5, y5): print (x, ',', y))CEA
from Sklearn-model-Selection import train-test-s Xtrain, Xtest, Ytrain, Ytest = train-test-spit (x, s print ("Dataset is spit into Training and Testing Samples") print ("Total training instances: ", xtrain. shapelo print ("Total testing instances: ", xtest. shapelo])	٦)

Teacher's Signature:

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form Skleann. Jeature - extraction text in	
count -vect = count vector	V19631
count-vect = count vectorizer() xtorain-oltm = count-vect fit-toansform	(xtenain)
xtest - dtm = count-vect. fit transform (xte	st)
xtest_dtm = count_rect. fit tenansform (xter perint ('In Total Jeatures extracted using xtenain-	2 Count Vectorizer.
Xtanin -	dtm shape[1])
print ("In Jeatures for Jirst 5 training insi listed below")	lances are
of = pd. DataFname (xtnain_dtm. to assay count_vect.	(), column =
count_rect.	get_leature_nomes())
point (df [0:5])	0
P- Cliare - Valle	210- 1-100
From Skleann - naire-bayes impost Multi	
df = Multi Nominal NB(). fit (xterain-dtm, s	JUMM)
predicted = df. predict (xtest-ottm)	20. 200
point ("In Classification overults of testing are given below")	SUMPICS
for oloc, P in zip (xtest, predicted):	
pared = 'pos' of p== 1 else 'neg	1
pared = 'pos' i p== 1 else 'neg parint ("/s - /s" / (doc, pared)))
from sklean imposit metaics	
point (") - Acquiraction Lostonics")	
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point ('In Accuracy metaics') point ("In Accuracy of the classifien is accuracy score (ytest.	producted)
accuracy score cytest,	prica credis i
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GAUTH	HAMI.U.G. 4MT17CSO41 Date
Expt. No.	Page No. 17
print ("Recall: " print ("Precision: " print ("Conjusio print ("metrices	metrices necall (ytest, predicted) (netrices precision treescore (ytest, predicted)) nodrix s.confusion-matrix (ytest, predicted))

Teacher's Signature: _

output:

pos
pos
pos
pos
pos
neg
neg
neg
heg
neg
pos
neg

Dimension of Pataset: (18, 2)

Total number of training data: (13,)
Total number of testing data: (5,)

Total instances in the dataset: 18

The message and its label of linst 5 instances are listed below:

I Love this sandwich, pos
This is an amazing place, pos
I jeel very good about these beens, pos
This is my best work, pos
what an awesome view, pos

Dataset is split into Training and Testing Samples
Total training instances: 13
Total testing instances: 5

Total features extracted using count vectorizer: 46

Features for first 5 training instances are listed below

		about	am	an	awesome	beens	best	bass	(an	deal do toda
	0	0	0	0	O	0	Ö	\bigcirc	O	0 1 0
	1	0	0				0	0	0	0 0 1
	ನಿ	0	0		6		0	6	1	1 00
	3	0	0	1	4		0	0	0	0 0 0
1	4	O	0	O	0	0	0	0	_	0 0 0

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1 1	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	1	8
3	0	0	O	0	0	0	0	0	0
4	0	0	0	0	6	0	0	0	0
	_								

5 nows × 46 columns]

classification nesults of testing samples are given below:

I Love to dance - pos

I am sick and timed of this place - neg

This is an amazing place -pos

whot a great holiday - pos

This is a bad locality to stay - pos neg

Accuracy metrices

Accuracy of the decision is 1.0 Recall; 1.0

Procession: 1.0

Conjusion Matrix:

[0 0] [03]