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## Source Code:

```
import pandas as pd
import pdb
msg=pd.read csv('naivetext1.csv',names=['message','label']) #
msg['labelnum']=msg.label.map({'pos':1,'neg':0})
X=msg.message
Y=msg.labelnum
from sklearn.model selection import train test split
xtrain,xtest,ytrain,ytest=train test split(X,Y)
from sklearn.feature extraction.text import CountVectorizer
count vect = CountVectorizer()
xtrain dtm = count vect.fit transform(xtrain)
xtest dtm=count vect.transform(xtest)
df=pd.DataFrame(xtrain dtm.toarray(),columns=count vect.get feature names())
from sklearn.naive bayes import MultinomialNB
clf = MultinomialNB().fit(xtrain dtm, ytrain)
predicted = clf.predict(xtest dtm)
from sklearn import metrics
print('Accuracy metrics')
print('Accuracy of the classifer is', metrics.accuracy score(ytest, predicted))
print('Confusion matrix')
print(metrics.confusion matrix(ytest,predicted))
print('Recall and Precison ')
print(metrics.recall score(ytest,predicted))
print(metrics.precision score(ytest,predicted))
```



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## Sample Dataset:

I love this sandwich, pos This is an amazing place, pos I feel very good about these beers, pos This is my best work, pos What an awesome view, pos I do not like this restaurant, neg I am tired of this stuff,neg I can't deal with this,neg He is my sworn enemy,neg My boss is horrible, neg This is an awesome place, pos I do not like the taste of this juice, neg I love to dance, pos I am sick and tired of this place, neg What a great holiday, pos That is a bad locality to stay, neg We will have good fun tomorrow,pos I went to my enemy's house today,neg

## Output:



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