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import nltk
from nltk.corpus import stopwords
stopwords=set(stopwords.words('english'))
pos tweets=[('It is not impossible', 'positive').
             ('You are my lovely friend', 'Positive'),
             ('She is beautiful girl', 'Positive'),
             ('He is looking handsome', 'Positive'),
             ('Exercise is good for health', 'Positive'),
             ('Today\'s weather is fantastic', 'Positive'),
             ('I love Mango', 'Positive')]
neg tweets=[('You are my enemy friend', 'Negative'),
             ('She is looking ugly ', 'Negative'),
             ('He is looking horrible', 'Negative'),
             ('Sleeping more makes you lazy', 'Negative'),
             ('Today\'s weather is very bad', 'Negative'),
             ('I hate Banana', 'Negative')]
#print(pos tweets)
#print(neg tweets)
Senti tweets=[]
for (words, sentiment) in pos tweets + neg_tweets:
  words filtered=[e.lower() for e in words.split() if len(e)>=3]
  Senti_tweets.append((words_filtered, sentiment))
print(Senti tweets)
def get words in tweets(tweets):
  all words=[]
  for (words, sentiment) in Senti tweets:
     all words.extend(words)
  return (all words)
def get word features(wordlist):
  wordlist=nltk.FreqDist(wordlist)
  word features=wordlist.keys()
  return word features
word features=get word features(get words in tweets(Senti tweets))
print(word features)
word features filtered=[]
for w in word features:
  if w not in stopwords:
     word features filtered.append(w)
print(word features filtered)
def extract features(document):
  document words=set(document)
  features={}
  for word in word features filtered:
     features['contains(%s)' %word] = (word in document words)
  return features
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training_set = nltk.classify.apply_features(extract_features, Senti_tweets)
classifier = nltk.NaiveBayesClassifier.train(training_set)

test_tweet='This is a horrible book' print("{}: Sentiment={}".format(test_tweet, classifier.classify(extract_features(test_tweet.split()))))