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In [1]: import pandas as pd
         df=pd.read csv("f:/dataset/sentiment/Restaurant Reviews.txt",sep="\t")
         X=df.Review
         y=df.Liked
In [4]: from sklearn.feature extraction.text import CountVectorizer, TfidfVectorizer, ENGLISH STOP
        from sklearn.naive bayes import BernoulliNB,MultinomialNB,GaussianNB
In [3]:
        sw=list(ENGLISH STOP WORDS)
In [5]:
         sw.remove('not')
        cv=CountVectorizer(lowercase=True, stop words=sw, binary=False)
In [7]:
         X new=cv.fit transform(X)
        model=MultinomialNB() #work well with discrete features(i.e. count)
        model.fit(X new,y)
        model.predict(cv.transform(['food quality was good']))
        array([1], dtype=int64)
Out[7]:
        cv=CountVectorizer(lowercase=True, stop words=sw, binary=True)
In [8]:
         X new=cv.fit transform(X)
        model=BernoulliNB() #work well with binary features(i.e. 0|1)
        model.fit(X new,y)
        model.predict(cv.transform(['food quality was good']))
        array([1], dtype=int64)
Out[8]:
In [11]: tv=TfidfVectorizer()
         X new=tv.fit transform(X).toarray()
        model=GaussianNB() #work well with normalized features
         model.fit(X new,y)
        model.predict(tv.transform(['food quality was good']).toarray())
        array([1], dtype=int64)
Out[11]:
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In []: