```
import pandas as pd
import numpy as np
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.model_selection import train_test_split
from sklearn.naive_bayes import BernoulliNB
data=pd.read_csv("Youtube01-Psy.csv")
print(data.head())
```

```
AUTHOR
                                    COMMENT ID
   LZQPQhLyRh80UYxNuaDWhIGQYNQ96IuCq-AYWqNPjpU
                                                       Julius NM
   LZQPQhLyRh_C2cTtd9MvFRJedxydaVW-2sNg5Diuo4A
1
                                                     adam riyati
  LZQPQhLyRh9MSZYnf8djyk0qEF9BHDPYrrK-qCczIY8 Evgeny Murashkin
           z13jhp0bxqncu512q22wvzkasxmvvzjaz04
                                                 ElNino Melendez
3
           z13fwbwp1oujthqqj04chlnqpvzmtt3r3dw
4
                                                          GsMega
                  DATE
  2013-11-07T06:20:48
                        Huh, anyway check out this you[tube] chann
1 2013-11-07T12:37:15
                        Hey guys check out my new channel and our
2 2013-11-08T17:34:21
                                   just for test I have to say mur
3 2013-11-09T08:28:43
                         me shaking my sexy ass on my channel enjo
4 2013-11-10T16:05:38
                                  watch?v=vtaRGqvGtWQ
                                                        Check this
   CLASS
0
       1
1
       1
2
       1
3
       1
```

```
data=data[["CONTENT","CLASS"]]
print(data.sample(5))
```

```
CONTENT
                                                         CLASS
135
                                Ahhh, 2 years ago....
                                                            0
105
         Sub to my channel visuelgamingzNL I sub back
                                                            1
98
     Anybody who subscribes to me will get 10 subsc...
                                                             1
97
     Please help me go here http://www.gofundme.com...
                                                             1
201
                         i am 2,126,492,636 viewer :D
```

```
CONTENT
                                                            CLASS
161
              Incmedia.org where the truth meets you.
                                                            spam
    Add me here...https://www.facebook.com/TLouXmu...
143
                                                             spam
253
    I am now going to voyage to the first comment....
                                                        not spam
75
     if your like drones, plz subscribe to Kamal Ta...
                                                             spam
94
    Why does this video have so many views? Becaus...
                                                        not spam
```

0.9857142857142858

```
sample = "Check this out: https://thecleverprogrammer.com/"
data = cv.transform([sample]).toarray()
print(model.predict(data))
```

['not spam']

```
sample = "Lack of information!"
data = cv.transform([sample]).toarray()
print(model.predict(data))
```

['not spam']