##1. Training Data

## Load Data

from sklearn.datasets import load\_iris

dat=load\_iris()

x=dat.data

y=dat.target

## Algorithm

from sklearn.naive\_bayes import GaussianNB

from sklearn.naive\_bayes import MultinomialNB

from sklearn.naive\_bayes import BernoulliNB

ML1= GaussianNB()

ML2=MultinomialNB()

ML3=BernoulliNB()

## Fit data into model

ML1=ML1.fit(x,y)

ML2=ML2.fit(x,y)

ML3=ML3.fit(x,y)

##2. Testing Data

out=ML1.predict([[3.5,3.5,3.5,3.5]])

print('Using Gaussian NB, the species for 3.5,3.5,3.5,3.5 were predicted as ',out)

out1=ML2.predict([[3.5,3.5,3.5,3.5]])

print('Using Multinomial NB, the species for 3.5,3.5,3.5,3.5 were predicted as ',out1)

out2=ML3.predict([[3.5,3.5,3.5,3.5]])

print('Using Bernouilli NB, the species for 3.5,3.5,3.5,3.5 were predicted as ',out2)