Naïve Bayes:

#Importing the libraries

import numpy as nm

import matplotlib.pyplot as mtp

import pandas as pd

# Importing the dataset

dataset = pd.read\_csv('User\_data.csv')

x = dataset.iloc[:, [2, 3]].values

y = dataset.iloc[:, 4].values

# Splitting the dataset into the Training set and Test set

from sklearn.model\_selection import train\_test\_split

x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y, test\_size = 0.25, random\_state = 0)

# Feature Scaling

from sklearn.preprocessing import StandardScaler

sc = StandardScaler()

x\_train = sc.fit\_transform(x\_train)

x\_test = sc.transform(x\_test)

# Fitting Naive Bayes to the Training set

from sklearn.naive\_bayes import GaussianNB

classifier = GaussianNB()

classifier.fit(x\_train, y\_train)

# Predicting the Test set results

y\_pred = classifier.predict(x\_test)

# Making the Confusion Matrix

from sklearn.metrics import confusion\_matrix

cm = confusion\_matrix(y\_test, y\_pred)

from sklearn import metrics

print(metrics.classification\_report(y\_test, y\_pred))