import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

path = "/Users/shushruthsheshadri/Desktop/data4.csv"

headernames = ['age', 'gender', 'bpm', 'result']

dataset = pd.read\_csv(path, names = headernames)

dataset.head()

X = dataset.iloc[:, :-1].values

y = dataset.iloc[:, 3].values

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

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size = 0.40)

from sklearn.preprocessing import StandardScaler

scaler = StandardScaler()

scaler.fit(X\_train)

X\_train = scaler.transform(X\_train)

X\_test = scaler.transform(X\_test)

from sklearn.neighbors import KNeighborsClassifier

classifier = KNeighborsClassifier(n\_neighbors = 8)

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

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

from sklearn.metrics import classification\_report, confusion\_matrix, accuracy\_score

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

print("Confusion Matrix:")

print(result)

result1 = classification\_report(y\_test, y\_pred)

print("Classification Report:",)

print (result1)

result2 = accuracy\_score(y\_test,y\_pred)

print("Accuracy:",result2)