import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

dataset = pd.read\_csv(r"D:\College\TE\SEM-2\Practical\DSBDA\5\Social\_Network\_Ads.csv")

dataset.head()

dataset.info()

dataset.isnull().sum()

dataset.shape

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

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

print(x)

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

x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y, test\_size = 0.30, random\_state = 0)

from sklearn.preprocessing import StandardScaler

sc = StandardScaler()

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

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

from sklearn.linear\_model import LogisticRegression

classifier = LogisticRegression(random\_state = 0)

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

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

print(y\_pred)

print(y\_test)

from sklearn.metrics import confusion\_matrix

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

print(cm)

Accuracy=(74+31)/120

Accuracy

Error\_rate=(5+10)/120

Error\_rate

from sklearn.metrics import precision\_score, recall\_score

precision\_score(y\_test, y\_pred)

recall\_score(y\_test, y\_pred)

from sklearn.metrics import f1\_score

f1\_score(y\_test, y\_pred)