Exp. No: 11 Date: Implementing Artificial Neural Networks for an application using python - Regression.

Afin.
To implementing astificial neural networks for an application regression using Python

Source Code:

from sklearn. neural-network import MLPRyrerror
from sklearn. model-selection import train_test_split
from sklearn. datasets import make-regression
import numpy as np
import numpy as np
import mat-plotlib. pyphot as plt
import seaborn as sns
'mat-plotlib inline

x,y=make_regression (n_samples=1000, noise=0.05, n_features=100)

x - shape, y. shape = ((1000, 100), (1000,))

x-hain, x-test, y-hain, y-test = hain-test_split

(x, y, test-size=0.2, shuffle=True, random-state=42)

cy = MIPROGRESSOr (max-Iter= 1000)

ch. fit (x-ham, y-train)

prints (fire Score for Test tata = {cy. score(x-test.y-test.))

the pagem was successfully executed and the pagem was reading.

R2 score for Test Data = 0.968655846621529.

Sint

population of **OUTPUT:** 0 1/62 6 plone onit trough mad amount Magnifi aton town? dolorst = po X= datous 力占 most x (x,y, test size =0.95, rondem sitte from skleam. preprocessing import standard Scalar sc Standard Salar () x hoin: sc fit-Isampoin (x-hoin) Let = schongen ryted PESULT Fuel and the many many

Thus this result was successfully executed and
the output was verified.