Exp. No.10 Date:

Proplementing artificial a rewal intropers for an application using python - classification

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Aim:

To implement artificial neural networks for an application in classification using python.

code:

sklearn. model_selection import train_test_split
from sklearn.datasets import make_cricles import
from sklearn.neural_network import Mupclassification
from numpy as np
import matpiotlib.pyplot as plt
import seaborn as sns

> matplotlib inline

x_train, y_train = make_urdes (N_samples = 200, Noise = 0.05) x_test, y_test = make_urdes (N_samples = 300, Noise = 0.05)

ens. scatterplot Cx hain [:,0], x-train (:,1], hue = y-train)

pt +118e ("grain bata").

plt-show ()

If = MLP classifier (max_iter=1000)
II- . fit (xtrain, y-hain)

y-pred = if. predict (x-test)

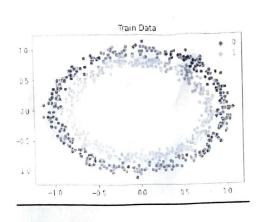
fig. ax = plt. & upplots (112)

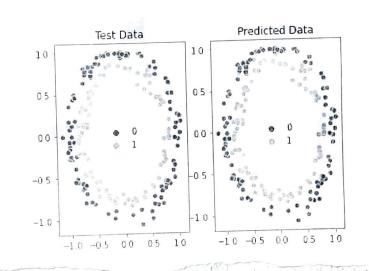
sns. Scatterplot (x-tost [:,07,

plk- show ()

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RESULT:

the output was recified.