Exp NO: 10

Implementing ontificial reunal notworks for an application using python - classification

Aim

To implement altificial neural notworks for an application in classification using bython

Code:

Shleann model - selection imposit train test extit from shleam datasets imposit make-circle imposit from shleam neural-network imposit MAP llassification

from numby as Nb import met plotlib. bythat as plt import seaborn as sus

1. motplotlib in line

x-terain, y-terain = make-circles (n-sepsamples = 300, Noise = 0.05)

x-train, y-test = make-circles (N-Ramples = 300, Nouse = 0.05)

ene eatherplot (x-train [:,0], x-train [:,1],
hue = y-terain)

pt. +itle [" Train Data")

bit. show()

if = mip classifier (max-iter = 1000)

if fit (x-brain, y-train)

y-prod = if predict (x-test)

fig. ax = pt. supplots (1,2)

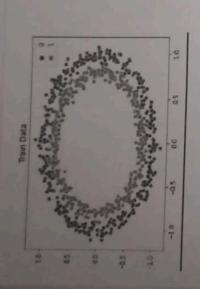
sns. salterplot (x-test [:,0],

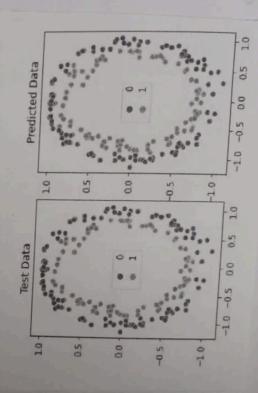
sns. salterplot (x-test [:, o],

x-test [:, o], true = y-prod, ax=axlog

plt. show()

DIP





Result

The program was successfully executed and the off is werified