EX NO: 7

DATE !

NETWORKS FOR AN APPLICATION

USING PUTHON-CLASSIFICATION

ALM:

For an application in classification using python.

PROGRAM:

Sklearn. model-selection import train-test split

from sklearn. datasets import make circles

import from sklearn. newral network import MIPCLASSIPIER

from numpy as np

import matplotlib. pyplot as plt

import seaborn as sns

/ matplotlib inline

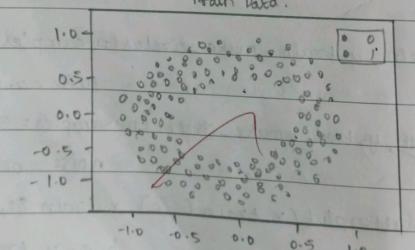
X-train, y-train = make _ circles (n_samples = 700, noise = 0.05)

X. text, y test cmake circles cn-samples = 300, noise = 0.05)

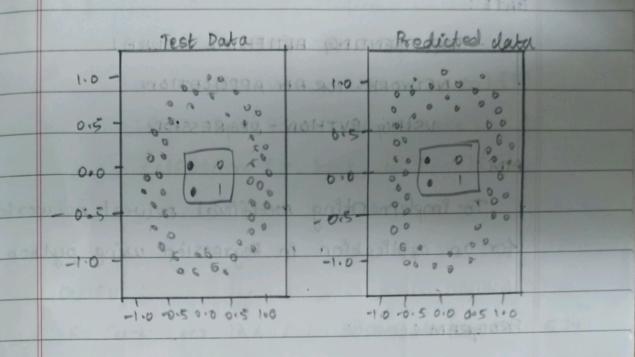
Sns. scatterplot (x-train [:, o], x-train [:, i],

hue-y-train)

pit. title ("Train Data") plt. show() Uf = MLP classiffer (max - 1 tor = 1000) elf. fft (X-train) y-train) print Cf "R2 Score for Training Data = & clf. score (x-train, y-train) 3") print Cf" R2 Store for Test Deta = & Clf. Store (x-test, y-test)3") 4-pred = clf. predict ex-test) fig, ax = plt. subplots (1,2) sns. Statterplot (x-test [:, o], x-test [:, 1], hue = y pred, ax = ax [o]) ax [1]. title, set text ("Predicted Data"). Sns. scatter plot (x test [:, o], x test [:, 1], hue= y-test, ax=ax[1]). ax [o], tetle set text ("Test Data") plt. show () Train Data.



OUTPUT :



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import Scabera as sas

RESULT:

for an application using python-classification is observed and the output is verified.

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