NEURAL NETWORKS -CLASSIFICATION Paccent of (714)

exponentmention (x,y): - Lonal (y)

AIM:-

for an application using python.

ferom skleaun. model-selection Emport train-test Sowia code: ferom skleaum o datusets emport make circles from Skleven. newal network Emport MLP Classifier imposet mumpy as my import matplotlib pyrlot as plt import Deabour as Ins % matplotlib inline

X- teain, y- terain = make-ciecles (n-Bamples = 700, noise = 0.05, grandom_state = 42) X- test, x- test = make-ciacles (n-samples = 300, noise = 0.05, nardom_state=42)

Pt. figure (figure = (6,6)) 3ns a scatteeplet CX=X- terain [:, O], Y=X- terain [:, i], hue = 7 terain, Palette = " provides ")

plt. tixtle ("Terain Douta)

Plt. show()

Cf = MIP classification (Max-iten = 1000, Mardom = 92)

Of . fit (x-terain, y-terain)

peint (f "R2 score foerdata = Eclf. score(x train, y-train)?")

Puint C+ "P2 score for Test data - & clf. score (x-tro),

4- pend = elf. pendect (x. test) frg, ax = blt. dubplots (1,2, frg size = (12,6))

ons. scatterplat (x=X-test [:,], Y=X-test [:,], hue=y-poud, paletta="Vindes", ax=ax[0]) ax[o] - set_ tittle ("psedicted Data") 3ns. scatterplot (x=X-test [:, o], y=X-test [:, i] hul= y-poud, palette = "violes", ax=ax[i]) ax[i]. bet-title ("Test Data") plt. show () outut: In police marker represent the series Basis Selection model relietion import from Brought Ctubs your four wown Ell. Good Cx brus, 4 serest 1) Prant of CARR 2 score for Text Data = E. Alf. Score Cx. Last 3/2 Least 3/2 Thus sectificial newral notwork for an Application using python is executed successfully.