EX: 12 Data:

Implementing artificial neutral networks for an application using python-negrellion

Aim:

To implementing attificial neural networks for an application in Regrellion uling Python.

Source code:

From Sklearn. newal- network import MLPRogressor from Sklearn. model - Selection import train_test-split from Sklearn. datasets import make - segrellion import numpy of up import numpy of up import matplotlib. pyplot of PH import seasons of Suf o/o matplotlib inline

X, g = make - regrellion (n-Sample) = 1000, voile = 0.05, h-featon

o till

X. Shape, y. Shape = ((1000, 100), (1000))

X - t Grain, X-test, Y-train, Y-test = train_test_Split(x, y, + f) Size = 0.2, Shuffle = Torne, random_State = 42)

Clf = MLPRegreshos, (max-iter=1000)

Clf + fit (X-train, Y-train)

Print (f"RZ scare for Training Pata = £ Clf. scare(X train, Y to 5)

Print (f"RZ scare for Test Data = £ Ut. Scare(X - Lest, X tots), X

output:

RT Score for test Data = 0.9686558466621529

Regult: thus the ANN for Allication wing Python-Regretion is implemented saccelluly.