

Experiment No: 11 Implementing Astificial Newsal Networks for an Application using Python Regress con the estal Newerk dataset.

Aim:

for an application in Regression using Python.

Source code: 1986 togas som signer maga

from skleasn. newsal\_network import MLPRegrosses grom sklearn model-selection import train-test-split grom sklearn datasets import make regression impost numpy as no import matplotle's pyplot as plt import seaborn as 808 % matplotab inline [[and :] acis isantos x

X, y = make\_ segsession (n= samples= 1000, noise = 0.05, n- geatures = 100). 131 p 2008-14 151 x 2001 x

x. shape, y. shape = ((1000,100), (1000,1)) x-teain, x-test, y-teain, y-test = teain test split (x, y, test\_Rize = 0.2, shuffle = True, Random-State = 42) df = MLPRegresses (max\_îtes = 1000) cy. git (x-train, y-train) print 1 p. 12 score por Training Data = { clf. score 1x train, print 19" R2 score for Test Data = Edf. 8core (x-test, y-test)3")

output: R2 Score 808 Test Data = 0.9686558466621529

Result: Thus, the program for regression is sucressfully executed and the sumput is verified.