

Implementation of Artificial News Networks for an application classification using Python Expro: 6 Dale: Aim: Implement artificial neural networks for an application classification using python. About:
- contains Oxtitocial receions. - The nearons are connected to each other
- They are arranged in layers to
Constitute a necessal treterork - The data posses through these Multiple layers and get provides output to.

The returnic. Hyprithm: 1. Start by improving reassary libraries 2. Load the iris dataset 3. Split date Set into training and Leasting
4. Create Simple formacional neural network.
5. Fit model to training duta
6. Check Modes personance on data Program:

imposit numpy as his
imposit Mothab. Pyplat as pit
imposit sea born or sns
from Sk learn dertasets imposit make-ades
from Sk learn necrosis nelevork imposit

from Sklear metrics import de score

x-Locin , y-train = Mare _ elocles (n-scorpe 100, noise = 0.05 toclor = 0.05) X lest Y - lest = Mare - Ciocles (n-samples - 300, noise = 0.05, toch = 0.5) Sns Scacler plot (a = x - train t:, ot Y= a-land Liain, palette = "Viridis", State = y-tran)
Pit. Litle ("Train Duta")
Pt. Show() Cit = MIP classifier (New = Item = 1000)

(It - fit (&-train, Y=train) Print (+ R2 Score tor Training Duta = {Cit. Score (x-Loan Y-Loan): >+5") Print It "Re Some for Test Data = { clt score (x. lest, >-lest) : 1.2136) Y-prod=c1+. prodet (x. test) tig, an=pit supplets (1,2, digsiz= Sns. Scattorplot (x=x=test[::,0] Y=x, test how hue = Y-pred 1 Palette = "undis", Style=Y-pred ax=ax CoJ)

ax LoJ. Set. Little (" Predicted Data") Sns Scotter plot (x = x -test 1:,0]

Y: x - Lest 1:,17

hue = y - prod Lest, parette = "Viroles"

Style = y Lest, ar=arci)

an LIJ-set Little ("Fateral Jost Duta")

