Implementation of Artificial
Moural Networks for an
Application using Python- Ulassification EXNO.12 To implementations antificial neural networks for an application in dassification using python. COURLE CODE: from Sklearn. neural_network import MLP Classifier from Phlearn. model_selection import train test split from Sklearn. obstasets import make-circle. from rumpy as no findport matplotlib. pyplot as plt from reaborn as Ins matplotlib inline 1-train, y-train=make-circles(n_samples=700, horse=0.05) X-test, y-test = make - wineles(n samples = 300 noise = 0.07) 8ns-scatterplot (X-train[&:,0], X-train [:,1], hue= plistitle ("Train Data") elf=Mirclassifier/max-iter=1000) STELLING CO. Clf. fit (X-train, Y-train)

print(f"Rz score for Training dataz

{clf- prove(x train, y train)}) y-pred=clf.predict (x-test) } test
fig, an = plt. Subplots (1,2) Shrs. snatterplot [X-fest[:,0], X-test[:,1], hue = y. pred, an=anlos) an [1], + [the set-tent ("Predicted Data") Sns. sixterplot (X-test[:,0], Y-test[:,1], hue = y fest an -an [1]) on [6] Aifle set-tent ("Test Data") plt-show Predicted OUTPUT : Text data 11.0 dollar 0.5 0.5 -0.5+ 1.0+ Thus the program is successfully encuted a output is verified.