Exp: No: 11 Implementing artifical neural Networks for Jan application using python - Regrission. Afin: To Implementing artifical neural Networks for an application in reglession using python. doure Code: from Sklearn. neural-metwork import MLP segression. from Sklearn. Model - selection import train-test\_split from Sklearn. lataset import make regression. import numpy as hp import moutplot lib . pyplot as ple import scaborn as sns impert met 1. matplatlib in line X. y = make - legalsion (n-Sample=1 Noise = 0.05, n-flature = 100) x. Shape. y. Thape = ((1000,100), (1000,1. x. train, x-test > y-train, y-test = Hab. test-Split (xxx test - six test = 0.2 Shuffy = tene, random = 42 elf = Mhp Regressor (max - ite, = 1000 elf st (x-train, y-train.)

Store for tept Pata = 0.96865584666 purchase arout or Done of the property of mit ( and by I madres) ) Jawan . such Mass so haved I reducti adder THA THE Hamon Traduct ( ) van Ermen H - daz tob andov. Et - 1,50 ogs. topto = 2012-WITH BOOK - P Signe and Isla - lebom mostly morb - 11/48 - HEST - SOTH -dot- mort. Think I del-x, whork-x While (xx more second second second second SC = Standard . E. C. ve) 1-01-18 (mert - x) mrebumrt. 12. 32 = mortx (Jul-x). mr- Junort. 20 = Jest-x 12 = Every Doda) Poulyery Na - Exix By MEX. SOFE CO. MARCH + () xxxx [0, ] + x - x = 9-18 61 the program was Inccessfully executed 10-6- 1366, 1+ - - TE [:]

Decision Tree Classification

Ex. No:12

Am! To classify the Social network datage using decision thee analysis.

## Source code:

from google ocetah import drive drive mount ("I content 1 g drive's)

import pand as aspd

import numby as hp import moutplottib. Pyblot as phe

dataset = pd. sead-csv ()

x = dotaset iloc C:, [2,3]]. Values y = data Set. iloc[:, -1]. values.

from Stleam model - selection importe train-test-split

x-train, x-test, y-train, = train-181 Splik (x, x, text - Size = 0-25 rand

SC = Standard Scalor ()

x-train = SC. St. framsform (x-trai x-test=oc. transform (x-test)

X1.x2 = np Meshjind (np-arrange) Start = x: Set[:, o J. mh()

10 Stop = x-let (:-0], max () +1 Step =0.

np. arrange 1 star E=x. lett. ] .

non () - 1, spp=x-let

[:, 1]. mart 1 , 1306 2001)

PIL. Ite (Decision Tree classification (Training Set)') PIE. xlabel (Age) PIE. Ylabel ( Purchan') PIE . legend() PIE . show () and mil with pairs a perily outbut: Sustained the ghan mos 5317 M76 **OUTPUT:** y, the made 011-36-110 73=200W NI I TA mound (1) and well 31) with 4日一月子、かいのようトートの1日 F. Lo. Jay Lovothose - Jid a was exem d the o/p