Aim.

TO classify the social Nebwerk dataset using decision thee analysis

source code.

from google colab import drive drive. mount (", content /gdrive")

import pandas as pd import numpy as no

import matplot lib. Pyplot as Plt

clatasel. = Pd. read_csv("1 content/gdrive/Mydrive/ Social Network-ads.csv)

X = dataset, cloc[:,[2,3]] values y = dalaset. class:, -1]. values

from sklearn. model - selection import train-

test-split X-brain, X-best, y-brain, y-best = brain_best-split

(x,y, test-size: 0.25, sandom_state=0)

from sklean. preprocessing import standardscale

Sc: Standard Scalar (1

X-train : Sc. Bit_ bransborm (x-train)

X-took: Sc. transform (X. took)

from shlearn bree import pecision tree classifier classifier = Decision Treeclassifier (criterion = entropy Random - State = 0 classifier. Bit (x-train, y-train)

y-Pred = classifier. gradict (x-test) Liberty planting and morgany wh

Chris endonus is socialised.

from sklearn metrics import confusion-matrix cm: confusion_matrix (y-test, y-fred) Porint (cm) from matplotlib. colors import Listed color map X-Set, y-set =x-train, y-train X1, X2=np, meshgrid (np. arrange (skart=X-set [:;0]. 1, stop=x_set[:,0] max()+1, step=0.01), ap. assange (stost = X-set[:,1]. min ()-1, Stop=x_set[:,1]. mas() +1, step=0.01)) Plf. contourf (x1, x2, classifier. Predict (np. asoray [(X). rawel(), X2. rawel()]). T) roshape (X). Shape), alpha = 0.75, cmap = Listed color map('red', 'green'))) Plit. xlim (x1, min(), x1 max()) PL b. ylim (x2. min(), x2. max()) for i, j in enumerate (np. unique (y-set)): PUt. &cattor(x-selfy-sel==j,0], x-selfy-sel== j, 1], c= Listed colormap (('ored', 'green'))(i), Label = 3) Pll. title ('Decision Tree classification (Prairing Sety Plt. x Label ('Age') Plt ylabel ('Purchase') Plt legend() Plt. Show() duscas price de vidos secretarios contras contras

words the consist of the property days and consists

MOVEMENT CONTRACTOR

output som TOURKERM IN SOCIETARY rint(os.listdir('/content/gdrive/My Drive'))
dataset = pd.read_csv('/content/gdrive/My Drive/Colab Datasets/Social_Network_Ads.csv')
from google.colab import files
uploaded = files.upload() import pandas as pd
dataset = pd.read_csv('Social_Network_Ads.csv') Ker man # Step 2a: Mount Google Drive from google.colab import drive drive.mount("/content/gdrive") ['Classroom', 'learnathon details.zip', 'DAA assignment i.pdf', 'oops assignment i.pdf', 'Batch_2_Data Dash Finals.pdf', 'colab notebook

Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable

Saving Social_Network_Ads.csv to Social_Network_Ads (2).csv

Drive already mounted at /content/gdrive; to attempt to forcibly remount, call drive.mount("/content/gdrive", force_remount=Irue). . 934 TOO STORY OF OXUM LOCALLY THE THIRD YOU LIBERTY STORES D. X19 (P. Orbay le .1x37 (squarks) solgilo gover. PLIE > P(X. & WE) SAN(X-SPECY) - SAN = = 3,00, X-SPEC B SAN Jan C. a Lisked colored (" and", " & see ")) his (6= world) Minustry Janeson Justed 2007 1734 Cook Justid 229 Pilk xtabel ("Age") PU Habel Puschase's PER LEGERGE ()000.PR. 27 Result Thus social network dataset using decision tree analysis is implemented and executed successfully