Decision na To classify the social Nehoosk dalager Aim: using decision has analysis from google colab import deine Program drive mount ( " pontent / gdeine ") inpost pandas as pol import many as mp. inquest marplatib. Pyplet as plt dalalet = pd. read (8V ( ) content/goline/ Ny prive | social - Nehrood - Ads - USV') x = dataset · ?loc[:, {213]] . values y = dataset. ilee [:, -1] - values. geom sklearn - modd - Selution import brain \_.test-split x-train, xe-test, y-train, y-test= train, -test-Split(x, y, test-Skx1 = 0.25, random-statizo) from skleain a preprocessing import Standard Scalu. SC = Standard Scalar 15. 2- rain = Sc. fit - Kansform (se hair) 2 - test = 80 . han8form (21-test) flom Sklear. Tree import desision tree Massifier Classifier = Deisson Tree classifier (aiseion = 'entropy', Landon - State=0)

classifier e fit (se-main, y-main) y-pred = classifier. predict (x-test). from Skleam, netrice Emport confusion netric (m = confusion - matrix (4-test, y-poed) from mat plottib. colors emport listed color 2 - Set, y-Set = 2- train, y-train 21 122= np. nushquid (np. arrange (start=x-set Shop = 2e - get (:, 0). mare 1)+1, step=0.01 np. arrange (start= x - set [:; 1].min()-1, Shop=x-set [:,1], max() + 1, Slep=0.01) pl. contour (x,, x2, classifier o pledict (Emp. array ((21. ravel (), 22. variel ()]).7). reshap (ser. shape), alpha = 0.75, unap= L'Sted color map (('red' - green'))) 7h. xlin (x, min (), 21. more()) plt-ylin(22. min(), x2. mac()) for i, v in enumerate (np. unique (y-sus): plt . Scatter (x - get [y-set== jro], x - get [y-ser == ji), c=listed (('red', 'green' )) (i), label=3) Color map plt ! title ( perigion wee classification (Training Ser)!) 1/ pet - 2 label ( 'Age!) plt . y label ( purchase ) plt. lengent ()