

Decision Tree Classification

Aim:

To Classify the Social Network dataset using Decision tree analysis

Cale:

from google · colub impost drive of drive · mount (a /ordent/drive)

import pumbs as pd

import Matpb L lib. Py plot as plt

dateset= pel. read .cs v ('Content (gd river Mydrice)

Social Network-Acle.csv')

N= SatuseL. ilox L:, L2,377. values

Y: dateset. iloc [:,-1] values

from Stateoin. model - Selation impost train test-soit

X. train, x. test, y. twin, y. test = train_test_split
(x. Y. test_spe=0.25, vombon state)

from Skbarn. preprocessing import standard Scalar Sc = Standard Scaler()

x train = Sc. tit = transform (x-toin)

from Stream tree import descison tree classifier characters

'entropy', rondom_State=0)

Clastifiar-fit (x. Evar, 1-train) Y-pred: classifier. predict (x. ted)

cm = Confeier - Motors Ly test - y-pred)

Print(cm) from marphet lib. Colours import lotal colorman or-set y set & x-train, y-train xi, is = op medgred lop arrage (startex set L: , od mino 1, stopix set for much)+1,5 tep=0-01), 1, stop = x-set L. J. man C) + 1, & tep= 0-09 ple contour of la, xe classifier, predict (np. asray ([XI. rave (C), K. [9. Facus (C)). t) restape (x) shop 1 - 01 pha = 0.75 , comap . Listal colorman (red; grand) PIL-alim (al.min(), Al-moral) plt-glim (x2. min), x2 max() to & y. in encourage lap. unique ly-sets. plk-scaffer Conset Ly-set = poJ, xsel [yet = J.J. C= Listed cobing ple. Little (Decision Time Classication (Training set)) plt - a bsell (Age) plt. y label (1 purchase) PH. legend() Plt . Show ()

Result: Thus one Classified Social network doctate history decision tree analysis.