

[Low Bras nigh vor LION Bisy (4 Mayorty Toain more 00 Oversi mij > No, become we one using Te normalization required in Split so some is noting random brest do not much necessary 08 DT Is random breest impacted yes coz they hindry > splitting process by outliers Is ENN impached by outliers > some in sequention Boostiy Technian Adabost (overall=1) Information weight Sturps 010 f2 f3 f4 (fi) ly No Dweek len - 1-bul-Stemps > Wooy Total county = 1 D prisomance of strings: = 1 loge (1-1/2 /= 0.895

weight & e-PD = \$\frac{1}{2} \text{xe} New Sample weight Inestruct record = weight \* eight \* eight = 1 xe = 0895 75 14 8=1. Normalised New weight Bicket Weigh 0.08 + 0.649 [0-0.07] 0.07 0.01 [0.07-3-19 0.05 0.07 E0.19-0-24 0.05 0.537 Co. # -0.789 0.05 0.07 ->0.349 0.05 0.07 0.05 0.01 6.64. 0.00 0.649 Regarsion = Aug classification = Mayority Black box vs White Box Model Linear Regression > White > We can visualize Random fordst > Black > write. pedsion Thue PNN . > Black box.

Unsupervised — Don't have specifie of and supervised — Clusters

O k-turns clustery { Smiler kind? custom-L

3 Silhoutle score } from Clustery }

Cluster Epsemble Technique 23 que certroid

We try k values -> sulfable (R=2) Ecolodean Centroids. 1 Instialize k no of centroids @ Find any of those Elbow remod (k value) k= 1 wess Al Here we sind Evalue where mour is about charge, All are the finda of K-mean clusteriy rerental clusterif Pendogram You need to find out longest vertical like mat has no nosizontal line passes municipalit. Mox time is token K-Man or Minoratiol 4 GZ It WISH keep of e teating was on deldogram

Palaset is small -> Hierarrial 3) Laye > le-Kign. mare p Valiadore disterij models (- to 7) dustin Silhovette (clusteria). Average will be calculated. 6(i) -a(c) , is(c; 1>) max (aci), 6(1)} Good cluster > eci) >> 6Ci) a (i) ce 6(i) DB Scan Clustery -> To stip outliers. 1 Min pb 3 core PHS 3 Bordy p.B E) Spriper - Rodius of the airele 1 Noise Pts. point loke points If no cotte on bordy pt then wise point will be neglected.

n kranchial K- Means VS K 1280 3/36 Diff. & Same color It is a phenomenon that skows me ossult of algoritm Bias & Vavance in avoir or against the idea. Thain = 90% overfilly
Test = toy, bow Bias dato 1 sad - how high Vovance Bios. Varian ce Refers to the charge in model when wif district postion of the troining or test about . Ter dota - Food - Low Var. -> Bad - High von. Resided SVM, SVR & Xgboost Dataset Salary Gordf Approval) 0 -0.5 1) X9600St Classifier C=50 2.00 107 <=So 0.5 Z=50  $c_7$ 20-5 250 3 Extreme bradient Borssy 0.5 > \$ 6 > \$ 6 5.0 -0:5 Box > Pr= 0's 2=50 1) Calculate a Binary Decision Try using one feature. Calculate Similarity weight [-0.5,05,05,05] [205,05,05,05,05,05,05,05,05] = ECROSideOl)2 Sim = [-0.5+0.5+0.5-05) 2 E (PoCl-Po)+1 0.201-0.2)+0.501.03 + 0.5(1-05)+ 0.5(1-0.5)

10. of residualts

Inform gain = 65 5 t 28.8 - 16

= 98.34

SVM -> Similar like logistic organission > Marginal plane X Logistie Chypurphane >In SVM we are going to increase marginal plant.

The Cost-2 y=mn+C > Intercept

(9,0) ant by+c=0 > 691 of

ch line Shop=1 y=mute y=w/utwzuzt -wnun y= WTy + 6 / . 4 => tre value > y= [-1] [4,4] = -4+0 = -4\_ Now maryinal plane is crusted: > W1x+6=-1 -> WTU +6=6 > WTU+6=#1 > Incuase his distances