

- · Bastes · Netrics
 - · Accuracy summers scale .
 - · conjusion matrin
 - · Precision
 - · Recale
 - · specificity

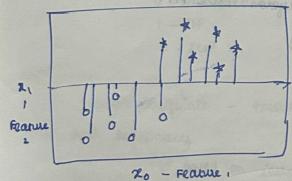
* Support vector machine 6 K- rearest neighbour

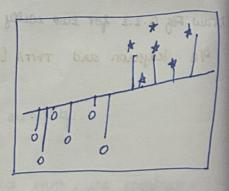
· Random Forest . Neight based.

- K= means custering

· Neural networks.

iii unit SVM



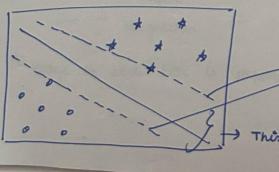


The putput lies in the toppe.

Generate a model that can clarify the given data points with 2 classification

y = 20 + mre,

SUM forms a line such that there is a street between the two types



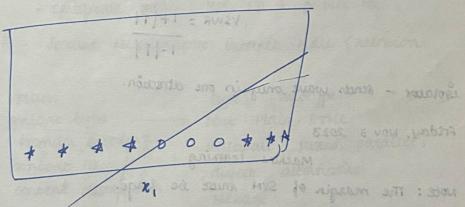
a those

के नाम

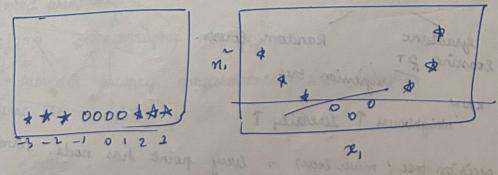
e man

This is the margin.

· Linearly reperable - A linear line must be able to artinguish the teppes. . SVM is best applicable for linearly separable data. agreement with any grade atting att - 24000 stayour Summer Rodes services (alson super printer of specially sway Bell shaped curve. 11/71 = AW2Y



Also there to only I peature. A single line cannot be drawn to reperate those. Hence we are draw creating another geature 2,2/2,3/... any polynomial. 1 K - HEAREST MELETINOU



Their we can convert the 1D data into many demensional data. It is called as Cornell Hick.

many relighbours)

· Hard margin - Does not allow any data points to be · soft margin within the street. will allow data points to be present within the street some. support vectors - the points close to the marger · gauman radial function - e - P/ 1 distance vervues 1-0 data point & gaussian data. T- RF 2lecrowave measurements vswr (voltage standing wave ratto) Vews = Vmax Voin. 1- NOWR-1 , cub I+ AW2V 17 |+1 = AW2V NE . Secure irolator - sends wave only in one direction. rousion Friday, Nov 3 2023 consent ty , honster Machine Learning Note: The margin of SVN must be large. intent 1 antent o SVC - function in python CT margen I was A same I plea a sent wat when c is troreased, deta proints can lie viside margin O K - Nearest Neighbours - K- integer (how Decision tree many neighbour) gradiant Random forests. 01/10 and pintable eoosting RT regression tree Neighbours T linearity T secision tree (muer look) - every point has node. Terminal · Jeatures node - leaf. many demandered data. It is called as bothall

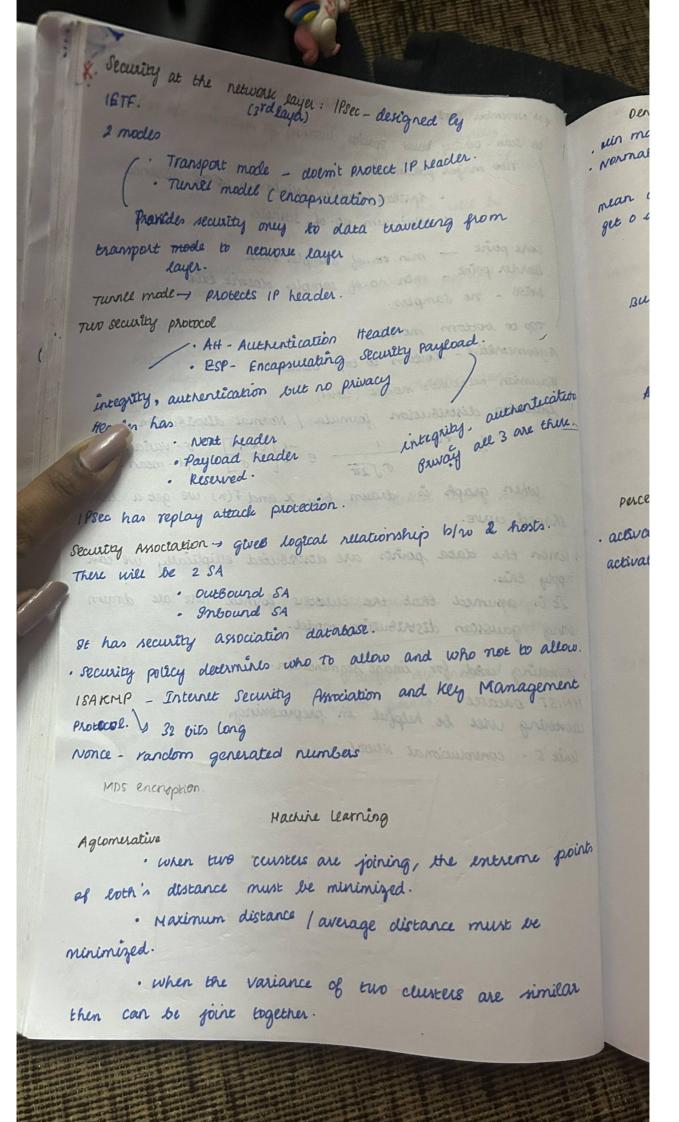
Types of msg · Signed data content , provides integrity ' Enveloped data content -s provides privacy Golgested data content Both original data and digest will be Stored. This also provides integrity-Authenticated data content. G encryption algorithm must be applied. Pata MAC punction per stand Key management - x:509 and PAP key management. gives the trust level. . Honed message - signy eases i such has · certificate onsq - user 10 + public rey The clata set is randomly picked and many trees are formed. Ensemble _ collection of 6 content type - tent: gradient exosting - sequential tree growth (stypapawa) Random forest - Paraclel tree growth.

Attribules K- Means clusters . No. of · choose how many clusters are needed durans. can find custers. · Then choose 3 random points. Read limitations

4th November 2023 Machine Maring DB Scan - Density based spatial clustering for Applications with Noise Tuo major parameter long/sh · spilon / radius / Minemum socof distance be applied · runimum no. of . samples care point - min. on of samples exist Border point - men no of samples doesn't exist 800 Notse - no samples. Top to bottom model. Ageometrative - lottom to top model gaussian runture's model (GMM) Gaussian distribution formula / Normal distribution $\dot{x} \cdot f(x) = \frac{1}{\sigma \sqrt{2\pi}} e^{-\frac{1}{2} \left[\frac{(x-\mu)^2}{\sigma} \right]^2} \sigma - variance}$ H - mean.ked and navy when graph is drawn blu x and f(n) we get a bell shaped curve. I when the data points are distributed elliptically we can apply this. It is assumed that the culties formed here are drawn uring gaussian distribution model. u needed to countering used for image segmentation. Unist paraset. Custering will be helpful in preprocessing project. Is 32 oits lan wit 5 - convolutional Newal hotocopy and was Harris learning · when care conneces are joining, the environe points of both's distance must be minimized. . Maximum distance | average distance must be

· when the variance of two tempers are similar

then can be joint together.



Dendogram - unalizing heirarchical clustering , win max scaler. -> x- man value vernalization: [max value - min value] & known as range Here the numbers will be stabstracted from the om mean of them. When the obtained ones are averaged with will get o and variance will get 1. unit 5 Newal Networks. suffer neural network or neural network uthenticoto AND neural network 3 are thus paceptron , will have only logical unit layer. hosts. · activation func: This determines whether newton can be ill be activated / por not. 20 allow. gement point a