



distal colonick slope (10) Sillien surlinged x2-x1 (8lope coil) he always the (or, of, ) a calculate stops (m) (1242) m= 32-7, (Slope always married where a my no Gradident December Evene Many see proton buylong others point will always This points I me a fet (+ve) will closely the more the supple that were come the supple that · Kornal hick G wet will cover low dimensions into typhor vinensing this polynomanial and RBF Therview of what is Difference between SUC and SUM Juestion Ans =) SVC -> It is a linear classifier which is able to separate the data that is called support ledor classifier 3vm -> If we are going to trasform our duta then it is called svm. Those and three ways trusforming the data = Poly nomid, RAF water meeted bruship all shapman of water

distance =) gran creates 2 paralled hyperplanes in such a way that one of the hyperplane will ke passing to the -8,2 Nl nearest (tre) point and the other hyperplane will be parting to the nearest negotive point. di Ance -> 9 1800 are the nothing but they are the point that purity through the marginal plane, any no of points that are possing through this gertialer morginal plane we will consider Herplane those as Support Yestor The higher the manginal distance the more generalized > In order to compute the diffunct knowner distance.

WTx, +6 =-1 (-) notb = () WT (72-71)=2 This is my aptimization funding 11011 such that (co, b) mot aldo 11 y I I dodong out 11.00 15 61. Condition yith wife + b? -17 WTz + b 5 31 popularia we can also represent like this also y: \* w a: + bi >/ I

This of allso tallful Indust 2 terminology to optimize my model

Regularization a befor

2 (200) (w\*, b\*) = min 11/0/1/ my movel con consider & (whatew signere i em
(misclassification deta) getting wirt this Amor Lam jast going to No Summaton! & SVPP /Lomals (=) & convert into 20im into 3 Dim + O Polynomiel Kernel mont opened god @ QBF Idemals and mysom to 3) gigmoid Hemal

Trusponation con be done using Emothernostical toutes formulas Note: If iour to closely there find points i con create and · hyperplace over here but the "error will be 1.1. high? in order to classify this poticular thing Convert: Id to 2d Then probably i will able to probably draw a hyperplane and toy to split this particular duta Considering Equation, 9= for mis fundor in nothing but 2 # five Applied single formula Jezz to convert 10im -> 2 Din 1 hyperplane Types of Margin LXDSoft Maryin La Hard Maryon & SVM Kernals (=) # comp Soft > In Soft margin there will be some percentage of error.

Suppose my soft margin has on privar of C; C=3 (3 mischoesification use con Consider)

