COL774 Machine hearing Sep 14, 2021 Naire Rayer y Tent Classification. P(D) -: - MAP commate (O(O)9 to P(D)9) or P(D)8) orginar PLDIÖ) :- M2 estimak Laplan Swoothing 7 Just: - breitred Just: Hegulenzetts

Inferme frue m play 4:0) [13]

anjour Phylosop) = [17] [13] 4:0) [13]

There is a superior of the play 4:0) [13] 3) Do take by before computation. Todays (1085-Support Vertor Markiner (SVM) Binary Washication 052 OTX=0 (included Whishe Repense. interept b/ 2/1/ (B) w= ( di - -# (bidon/201; b)) tures example contraded to compretate :- Morgin of a point I given Functual worgh 7/i) SYMS find the Regperplan which wariness Bard compan Morson Max J'M'P Notinusus Hu ~ 42- 46) (WT242+b) 7

J [ liwil ] 4,617  $y^{\omega}(w^{T}x^{\alpha})+b)$   $\geq \gamma$ 2 = 11WII7 Contrained Jus (WTn49+3) = 8~ TX, WX, bx is an affirmed solution to this problem 1 K Fx, rwx, xbx 15 also au ophinal solution  $1, \frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}$ >> 1, w'x, b'x 11 KD 12572 KD = 1 12

NA7 / 1/W1/2 xi,- yw/w/x4)+b) =1 17W172= WTW min JWIN (onstrained) subject to univarity; ywilwToru, +3) =11. SVM optimatin problem (comband) WERN (newely)
VIES 1- m3 ruin f/w) 19; (w) 50 41821-- Þ3 helw) = 0 ( equal-y outra ut Constrainted Ophnietrie -(i) f?- is a conver function (1) Ji :- also unuer functory [+1) EZ1-mj (In he :- are affine: $f_{\rho}(w) = \omega T_{n + b}$ Wintboo I war ( DI dw. + Bwas ) Mylb.

= ahe (wi) + shelver) y con con 

rand Longemmi -