GOAL: Linear Separa classifier two classes.
DATE
SIMPLE SYM CITE XDIA
Hyperplane: Decision boundary
Duplate Colo Doing
negrest to temperplane
1) Divide the negative - X +
and positive samples -
Constant Constant
2) Drawona Vector Har to the median
+Ve Sample
1- (d+ 1xw) + w= weight u= unknown sample
3 C= constant (b)
Decision 1. www. Xxx th >0 box of =
RULE 1 mont 100. X + b > 1 (tve Sample)
w. x + b < -1 (-ve Somple)
y: (ω,x;+b) > 1 y:= Variable
4. (wx+b) 2
we multiplied - re sample by -1 so the
both the resultant equations are same.
3. Maximum Marriso
Wedth of the street
$ A = (x - x) \times 10^{-10}$
ΙΙωπ
3 Maximum Margin Width of the street $W = (x_1 - x_1) \times \omega$ $V = (x_1 - x_2) \times \omega$ $V = (x_2 - x_3) \times \omega$ $V = (x_3 - x_4) \times \omega$
= 2 tve sample
IIMII
X2-4
- XW +
VISION
PAGE

Max = m MIN = 1 IIWIP KKT we are finding Lagrange functions with extrememof new expression constraints constraints without thinking Indana = To find maximum, we find derivatives and set them to Zero M - Zai Yi XP dw W = 7 d: 4. x: w. 4. dL dt-kt/k (0+1 (d-1 HWII

Substitute	DATE [] [] []
Substitule	For which we will be a first to the contract of the contract o
L = 1/2 di	4: x;) { d; 4: x;)
	Za: 4:x, ({ a; 4:x;)
	- Z x: y: b y: constraint Zero:
1 = 5 x:	-15 Fa. a. y.y x x.
7	- 1 7 [x, x; Y; X; X;
	Banker and a common work of the contribution and the contribution of the contribution
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