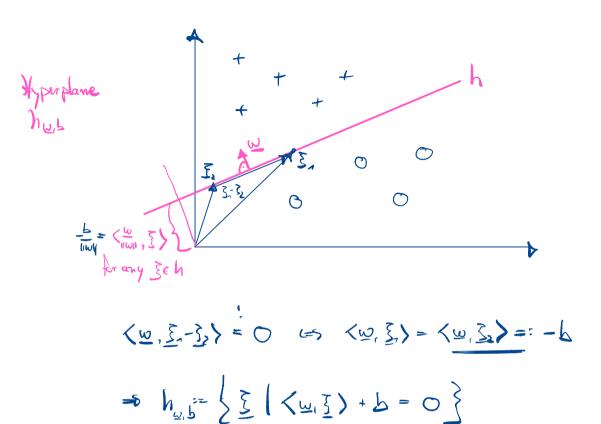
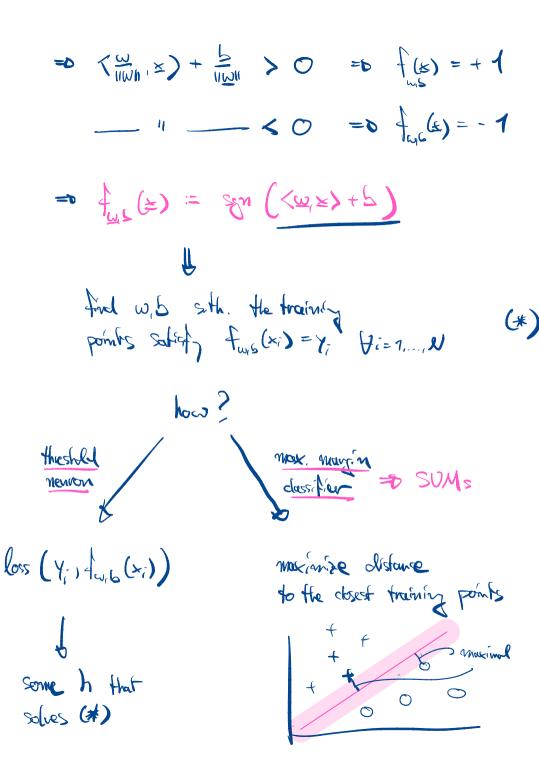
LARGE MARGIN CLASSIFICATION

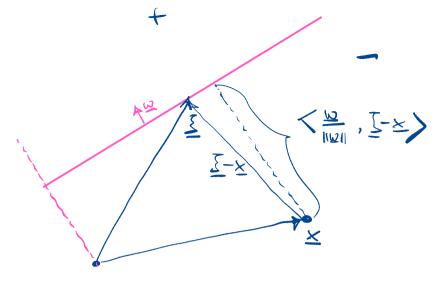


Decisions
$$\int_{\mathbf{W}_1 \mathbf{b}} (\mathbf{x}) \in \{1, -1\}$$

$$\int_{\mathbf{W}_1 \mathbf{b}} (\mathbf{x}) \in \{1, -1\}$$



marzin



$$\underline{\mathbf{m}_{\mathsf{WS}}} := \operatorname{dist}\left(\mathbf{h}_{\mathsf{WS}}, \mathbf{x}_{\mathsf{t}}^{\mathsf{t}}\right) = \left|\underbrace{\mathbf{w}_{\mathsf{WN}}}_{\mathsf{WN}}, \mathbf{x}_{\mathsf{t}}^{\mathsf{t}}\right|$$

$$\underline{\mathbf{m}_{\mathsf{WS}}} := \operatorname{dist}\left(\mathbf{h}_{\mathsf{WS}}, \mathbf{x}_{\mathsf{t}}^{\mathsf{t}}\right) = \left|\underbrace{\mathbf{w}_{\mathsf{WN}}}_{\mathsf{WN}}, \mathbf{x}_{\mathsf{t}}^{\mathsf{t}}\right|$$

$$\underline{\mathbf{m}_{\mathsf{WS}}} := \operatorname{dist}\left(\mathbf{h}_{\mathsf{WS}}, \mathbf{x}_{\mathsf{t}}^{\mathsf{t}}\right) = \left|\underbrace{\mathbf{w}_{\mathsf{WN}}}_{\mathsf{WN}}, \mathbf{x}_{\mathsf{t}}^{\mathsf{t}}\right|$$

hand = {3 ((w,)3) + 16 = 0} = hus where 2 + 0 11W1 mw6 = (W, x+) + 5

=0 pich 2 sth. |\www.

linear MK "primal prodem"

lions W,L

s.4. $f_{\omega,S}(x_i) = y_i \quad \forall i$

(=> Y; (<w,x;>+6) > 1 4:

(constrained of. Problem)