0/26/23

bodres occurrent: 50%

5% Conces

95% not malre, according: 95% baselver

SVM. Support rector mountes

Svaler

Crocoder

41 -1

1

sign
$$(xa, x7+b)$$

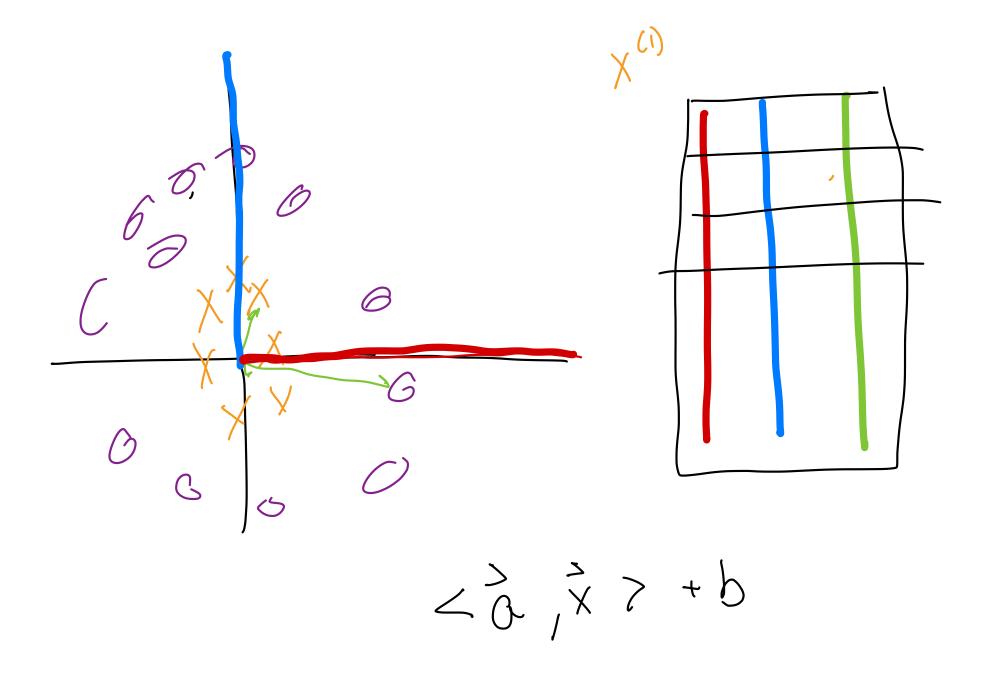
one featre
Sign $(ax+b)$
 $ax+b=0$
 $ax=-b$
 $x=-\frac{b}{a}$

two feater

[X,]

[aa]

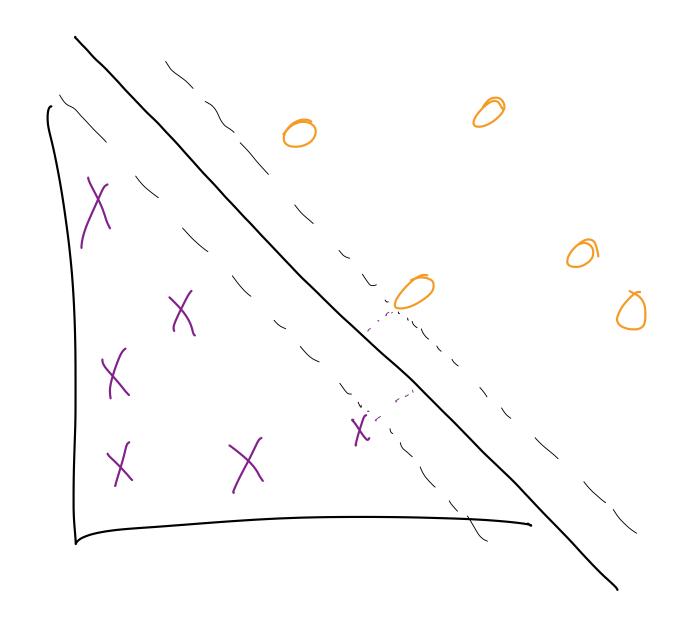
a,x,+a,x,+b



1) ensue predicted correctly training samples on correct side 2) generals to unseen obten training error cost + 1 possity regularization form Correct Johns

 $l(y_i, \langle \hat{a}, \hat{x}^7 + b \rangle)$ We and $z = \hat{a}, \hat{x} > + b$ diff signs

Les wort l loss



 $\left(y_{i}, z_{i}, \overline{x}_{i}, + b\right) = \max\left(0, 1 - y_{i}(z_{i}, \overline{x}_{i}, + b)\right)$

 $f = \left[\frac{1}{N} \sum_{i=1}^{N} \max \left(0, 1 - y_i \left(\langle \vec{a}, \vec{x}_i \rangle + b \right) \right) \right] + 2 \frac{\|a\|_{a}^{a}}{a}$

