

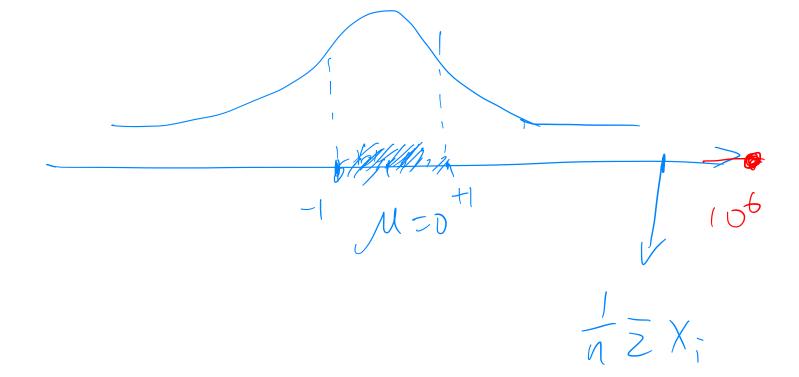
ELD] = W - - - X_h ~ D X ~D positive Mor (00 -> 5. P(X>t.M) < + t:100 2- 9 9 X & (39. M

$$Z = Var(D) is given$$

$$Pr(|X - DA| > t) \leq \frac{Var(X)}{t^2}$$

$$X = \frac{1}{n} \sum_{i=1}^{n} X_i^i$$

$$Var(X) = \frac{1}{n} \cdot Var(X) = \frac{1}{n}$$



Z-

E/d.

bect strutesy/ Kuniform 000 large Variance comp. W/ variance of

all data var ave clean

o ≤ 2- ≤ 1 Gral: clean corrupted. n= frae. of data.

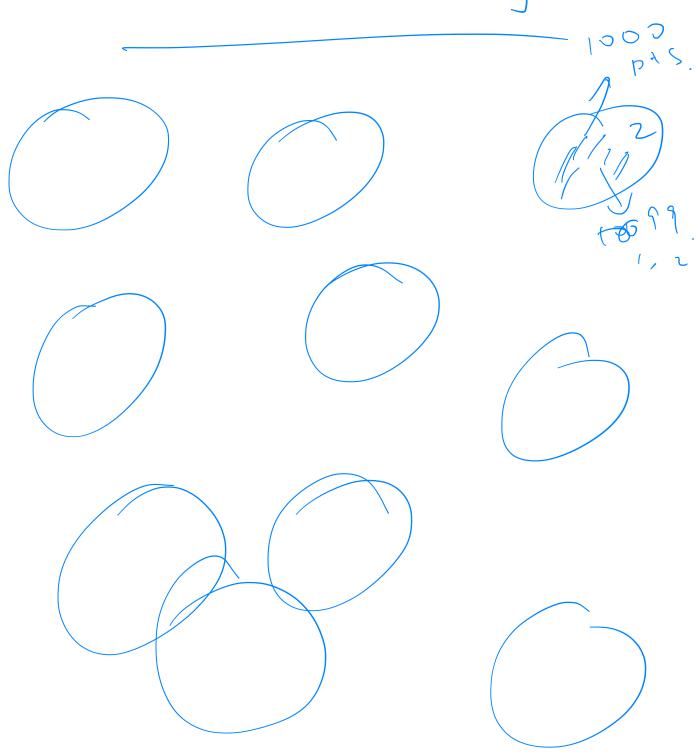
 $(1) \quad 0 \leq 2_{\tilde{1}} \leq 1$ $\frac{(2)}{(1-1)n} \cdot \frac{1}{2} \cdot \frac{2}{(1-1)n} \cdot \frac{2}{(1$ $\frac{1}{M-1} \cdot \sum_{i=1}^{N-1} \sum_{j=1}^{N-1} X_{j} \cdot \text{cor. dat } A$ have small har smal given as ver jht. far as we 1cmm clean LI-15= cov. of D. Anta dist. D= N(M, I). corrupted. 9; - 1, X; > (1-7) No meight (3) ≥ 2

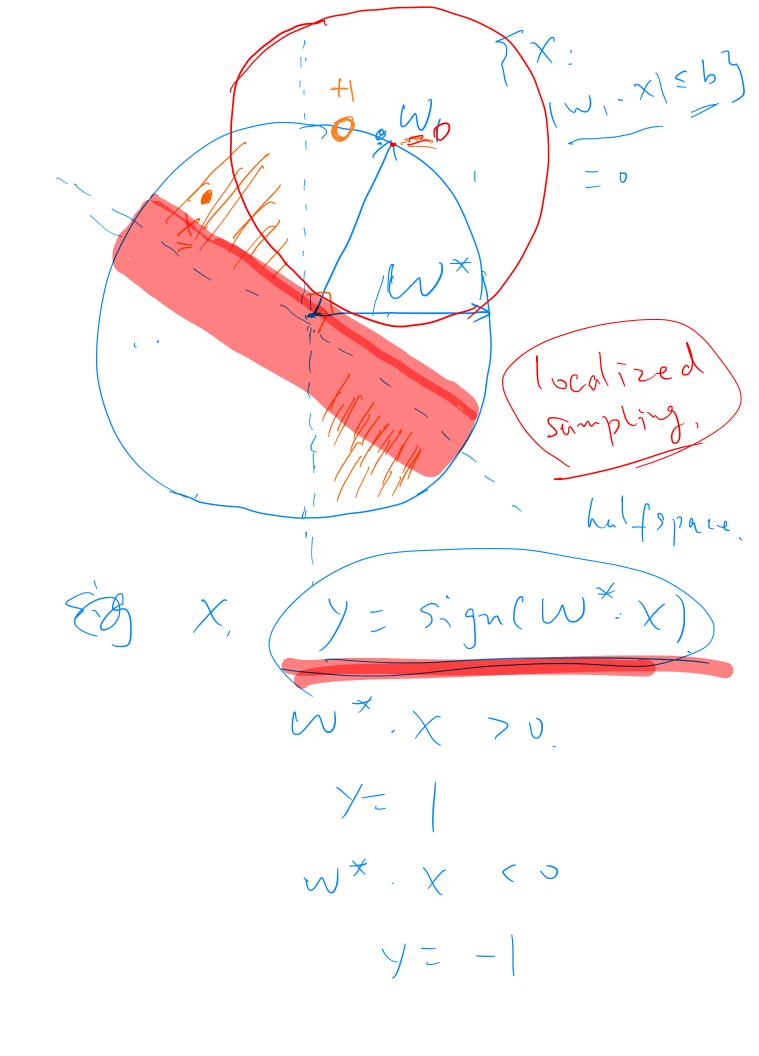
< 1/2 999 falce 4.9 (110) preuple). Warning 1 ~ 20

min II ûi - MI E true mean (9096) \rightarrow 101-(10 90) -> Harishung 7<10%

M. NLM.

Active Leerving





 $W_0 = (1, 0, 0, -- 0)$ $X_{k} - X = |W_{k-1} - X| \leq b_{k}$ draw pts from Xic.

(abel them

"statesy for Caheling. SVM.

min ηκ θα χ { 0, 1 - /₄ · W· X₄}

w ξει μα χ { 0, 1 - /₄ · W· X₄} (1 W - W K-11/2 5 TK)

AWO-W*11 52 $(|\mathcal{M}(z)|$ the tabels/iter = d init angle = D(1) #iter = log = 1 d. log = K n(de (ogt) 2) d-t

 $1 w_b - w^* 1 \leq 2$ $W = \{ w : ||w - w_{o}|| \leq r \}$ (\mathcal{N}^{\times}) $\in V_{\circ}$ trust region for wx $||W_1 - W^*|| \leq 1$

Margin - based Active Learning. 2007 condition on D. 2014-54 d- 19 E 5. 1 og d-

(a)e(= d. 13= $d \cdot \frac{1}{\epsilon}$ (05 N Lulel comp