Y: Label Set . X: Domain Set . : P'JIN'O

X & D: (18/13, ICD MEBUD. HE Yx :NONDIN ON :

. A(\$) : > (x1, .., xm) : training data.

(10/1/2: 6 bis: (15/41x bis: N-O.

« coli 2a.1. N. H. D. M. A. D. C. HAZ MUSIC (€ (†) a).

The Restriction Function

X-N NINUOLO NIN-E37 BOIDE DINUNNO TH: N→N :213ED

DNIO DISTO HE 'PPO LYE NK, M | BKD

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TH(M) = { | Hell CEX, | C|=m}

## (लिए हारे हेपरिएए हा:

? TH(m) · Nh · ha = x → sign (x-a) | x,a∈R3 = H · Nn. (a)

\$\frac{1}{2} \text{ \text{on}} \text{on} \text{on}

Agnostic PAC

(1) (x,y) = (x,y) =

 $L_{S}(h) = \frac{1}{m} \sum_{i=1}^{m} l(h_{i}(x_{i},y_{i})) : 100 \text{ plane} \text{ or } 100 \text{ plane}$   $5 = \{(x_{i},y_{i})\}_{i \in I} \text{ plane} \text{ plane}$ 

 $L_{p}(h) = \mathbb{E}\left[l(h,(x_{i}y))\right] \quad \text{in Genden Acte}$   $(x_{i}y) = D$ 

(8) (100 (100) (10

 $m_{\chi}: (o, n)^{2} \rightarrow N$   $An.p. plc: Agnostic - PAC <math>A3: N\delta \rightarrow X+Y$   $(\mu D-1)$   $\xi_{1}\delta \in (o, n)$   $(o, n) \rightarrow A$   $(o, n) \rightarrow A$ 

d. Ell UECC :

H NOSCI PAC PAC (CODDIODIC) ANORA (COLADIA GOLADIA COLADIA CA PAC - JANOSTIC - PAC ASINOSTIC - PAC ASINOSTIC CO- DI JUNE (C- DV DIC (C) OSCI.

(4) Mora grand solver (4)

C1.62 Prip Ping SIC H Q VC-D 3HIN = d 500 PC : (DOURD 108

$$C_{1} \frac{d + log(\frac{1}{\delta})}{\varepsilon} \leq m_{H}(\varepsilon, \delta) \leq C_{2} \frac{d log(\frac{1}{\varepsilon}) + log(\frac{1}{\delta})}{\varepsilon} R$$

: 71 N Agnostic - PAC 13, No H (\*)

$$C_1 \frac{d + log(\frac{1}{\xi})}{\xi^2} \leq m_H(\xi, \delta) \leq C_2 \frac{d + log(\frac{1}{\xi})}{\xi^2}$$

. ERM - ) 12/1c 18 EPON MY, PY/1/60 PYNOND 2 1/61

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uniform convergence of rules (L) as across motions all reflect to the loss of the loss of

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(hs) ERM<sub>H</sub> -N ISINSPIRE DENOISED DENOISED ACTION IN PROPER IS FOR EXPLOSIVE TO  $(hs) = min Lp(h) + \epsilon$  : PRIPAN he H H ARGINITED AND ACTION A

MC -9 MEN 26 6, H MOJENG. Uniform convergence

30 Line: 11 (1,0): Hw and. W: 19 (1,0)=313 10/2/2/7 d

3-7 ≥ [S (3 3-4:8/2)] F

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