D'Practice "R" (Practice lecture: Explain Codes using) 650-:

Training D. L.

Training Data

D={<x,,y>,<x2,y2>,...,<xn,yn>}

Xi is Bill's characteristics y = 1 means he paid his boar

X2 17 Jill's 1111

X3 15 Tony's ...

 $D = \langle x, \vec{y} \rangle$, $x \in X = X$, $x \times_2 x \cdot y \cdot x \times_p$

Whe will focus on SUPERVICELAL EANING You need 3 ingredients.

DD, the training data

DH = {all count date finances for ff 3 A the algorithm which produces g=A(D, H)

y=1- 11 8he 11.

y=0 1 he did not pany hor wans.

was either 0, 1, 2, 3.

If f & H ht is the best approx of fe Your algorithm will be: 1=38)-(hB)-9B)+(f(x)-1/B))+(+(Z))-f(x)) misspecification error error duto rynorande Three sources of How to minimize $(f(\vec{x}) - h^*(\vec{x}))$ error. lo minimite

Ans: need better algorithm.

increace PT more useful