PA 2. Toraining bindry classifiers in situation where we do not have full occess to the labels. of positive examples. @ Luppose that each y(1) aid x(1) are conditionally independent given t(1)  $P(y^{(i)}=1|t^{(i)}=1,x^{(i)})=P(y^{(i)}=1|t^{(i)}=1)$ Jule assime a détaset  $S(x^{(i)}, t^{(i)}, y^{(i)})$ where to 6 (0,1) is the "true" lobel y(i) = 1 ox(i) is labeled All labeled examples are positive, which is to Say P(E(1)=1/4(1)=1)=1  $\Rightarrow$  We want to construct h such that  $h(x^{(i)})$   $\approx P(t^{(i)}=1/x^{(i)})$  as closely as possible, using only a and y.

