decision loss

l(y, a)

 $\alpha \in \mathcal{A}, \quad \forall \in \mathcal{A}$

Prod problem

 $Q = \sqrt{}$

P(YIX) ~ Pr(YIX)

ê Largnin - Elog Pg(YlX)

(Nodel) (05)

$$P_{1}^{(x)} = P_{r}(y=1 \mid x=x) I_{TP} + (1-P_{r}(y=1 \mid x)) I_{TP}$$

$$Assume \hat{p}(x) = \hat{p} = P_{r}(y=1 \mid x=x)$$

$$P_{1}(x) = \hat{p} I_{TP} + (1P) I_{TP}$$

$$P_{0}(x) = \hat{p} I_{TP} + (1P) I_{TP}$$

$$P_{1}(x) \subseteq P_{0}(x)$$

$$P_{1}(x$$