$$Y = x + b_{1}x + y_{1}z_{1} + b_{2}z_{2} + ... + y_{p}z_{p} \quad (nw epilon)$$

$$z_{1}, ..., z_{p} \quad ave \quad noise$$

$$E [Y|X] = b_{1}x + (x + \frac{1}{12} \sum_{i=1}^{n} \sum_{i=$$

- Leasquare estimate

$$B_{1} = R \frac{Sx}{Sy} \sim ?$$

$$B_{6} = Y - R \frac{Sx}{Sy} X \sim ?$$

$$Y = f(x) + E = B_{0} + B_{1} X + E$$

$$Y \in \{0, 1\}$$

$$Y \in R$$

$$P(Y = 1 \mid X) \qquad Y \in R$$

$$Target$$

$$Y \in \{0, 1\}$$

$$Y \in \mathbb{R}$$

$$Y \in \mathbb{R}$$

$$\begin{cases}
P & P \in (0,1) \\
P & P \in (0,\infty)
\end{cases}$$

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$$logi+ (P(Y=1|X)) = B_0 + B_1 \times (n_0 e P Silon)$$

$$P(Y=1|X) = logi+ (0)$$

$$| n(\frac{P}{1-P}) = Bo + Bix$$

$$| P = e^{Bo + Bi} = 2P = e^{Bo + Bi} \times + Pe^{Bo + Bi} \times + Pe^$$

$$X \sim \text{Rem}(P) := P^{\times}(|P|)^{1-x}$$

$$\int_{i}^{\infty} \left(\frac{8}{8}, \frac{8}{6}, \frac{7}{7}, \frac{7}{7} \right) = \frac{1}{11} \left(\frac{e^{\beta \circ t \cdot \beta_{1} \times i}}{1 - e^{\beta \circ t \cdot \beta_{1} \times i}} \right) \left(\frac{1}{1 - e^{\beta \circ t \cdot \beta_{1} \times i}} \right)^{1-\frac{7}{11}}$$

$$= \frac{\pi}{11} \left(1 - e^{\beta \circ t \cdot \beta_{1} \times i} \right) = \frac{\pi}{12} Y_{i} \left(\frac{1}{8} + \frac{$$