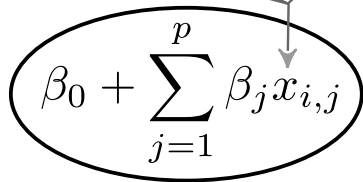
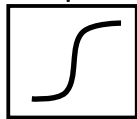


$\begin{bmatrix} x_{i,1} & x_{i,2} & \cdots & x_{i,p} \end{bmatrix}$  inputs


$$\beta_0 + \sum_{j=1}^p \beta_j x_{i,j}$$

weighted  
sum



logistic  
sigmoid

$\Pr(Y \equiv 1 | \mathbf{x}_{i,\cdot})$

output