



if

$$\sum_{i=1}^n x_i w_i > T, \quad y = 1$$

$$y = 0$$

$$I_j = \sum_i x_i w_{ij} + b_j, \quad O_j = f(I_j)$$

$$\sum_{i=0}^n x_i w_i > 0 \rightarrow y = 1$$

$$= \frac{1}{1 + e^{-I_j}}$$

$$O_j \in [0, 1]$$