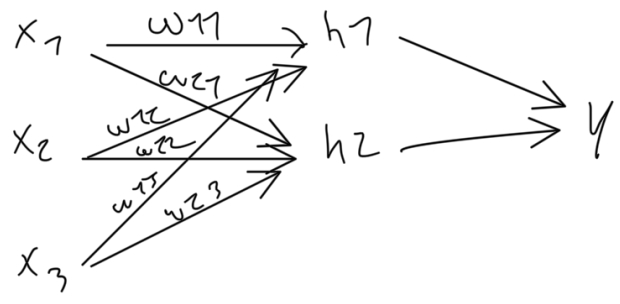


# Neural Network



$$\begin{bmatrix} w_{11} & w_{12} & w_{13} \\ w_{21} & w_{22} & w_{23} \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} \begin{bmatrix} w_{11} * x_1 + w_{12} * x_2 + w_{13} * x_3 \\ w_{21} * x_1 + w_{22} * x_2 + w_{23} * x_3 \end{bmatrix}$$

$$H_i = \sigma (w_{ij} \cdot I_i + B_i)$$

$$O = \sigma (w_{ij} \cdot H_i + B)$$