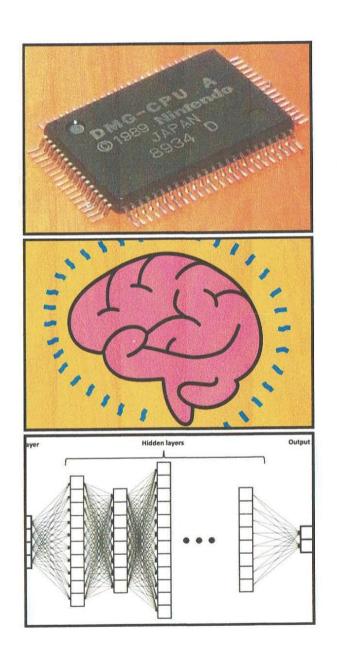
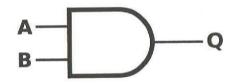
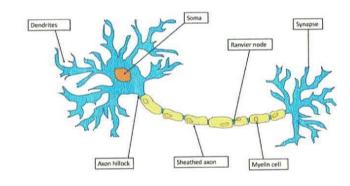
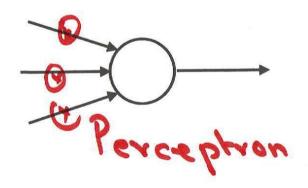
## Building towards a complex task!



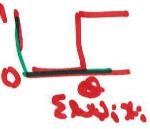






## Perceptron!

What does it do?

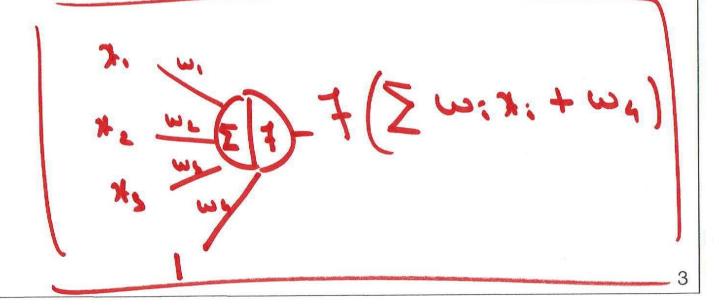




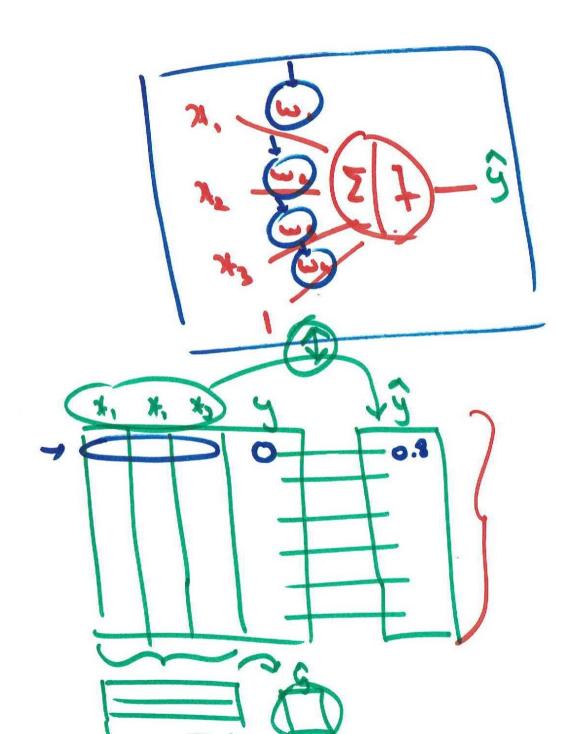
$$\frac{\chi_{i}}{\chi_{i}} = \frac{1}{2} \left( \sum_{i=1}^{N} (x_{i}) = 0 \right)$$

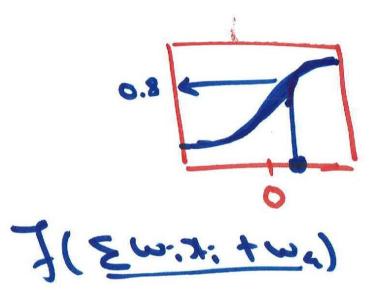
$$\frac{\chi_{i}}{\chi_{i}} = \frac{1}{2} \left( \sum_{i=1}^{N} (x_{i}) = 0 \right)$$

Bias



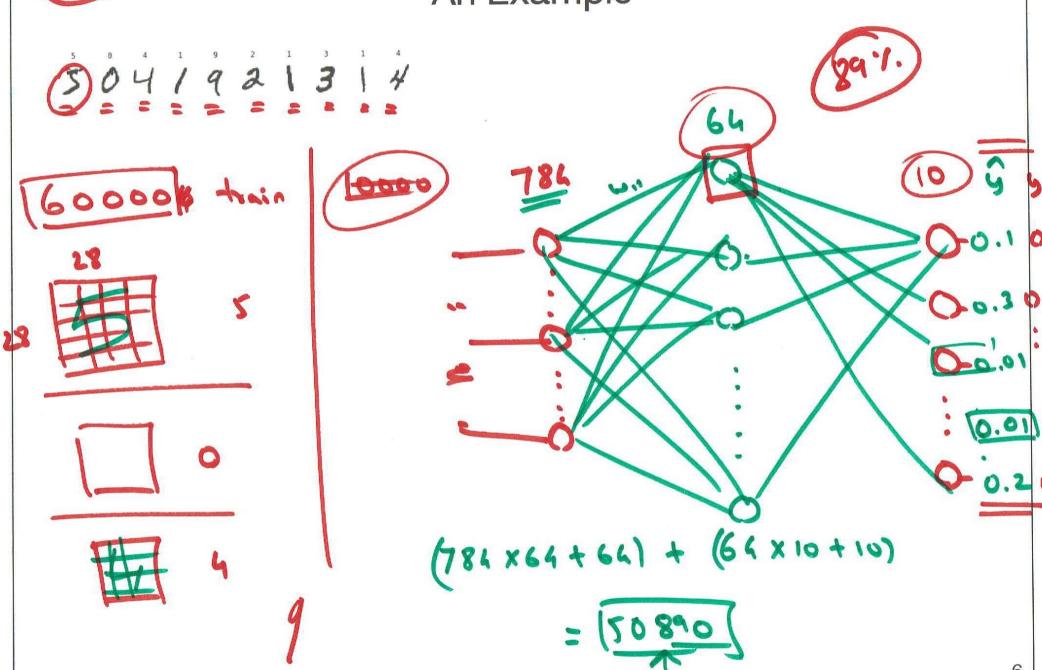
Perception



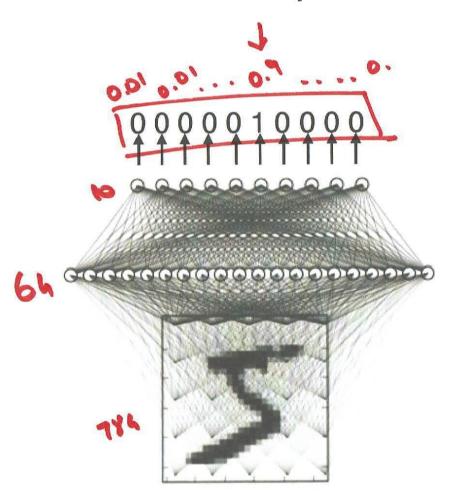


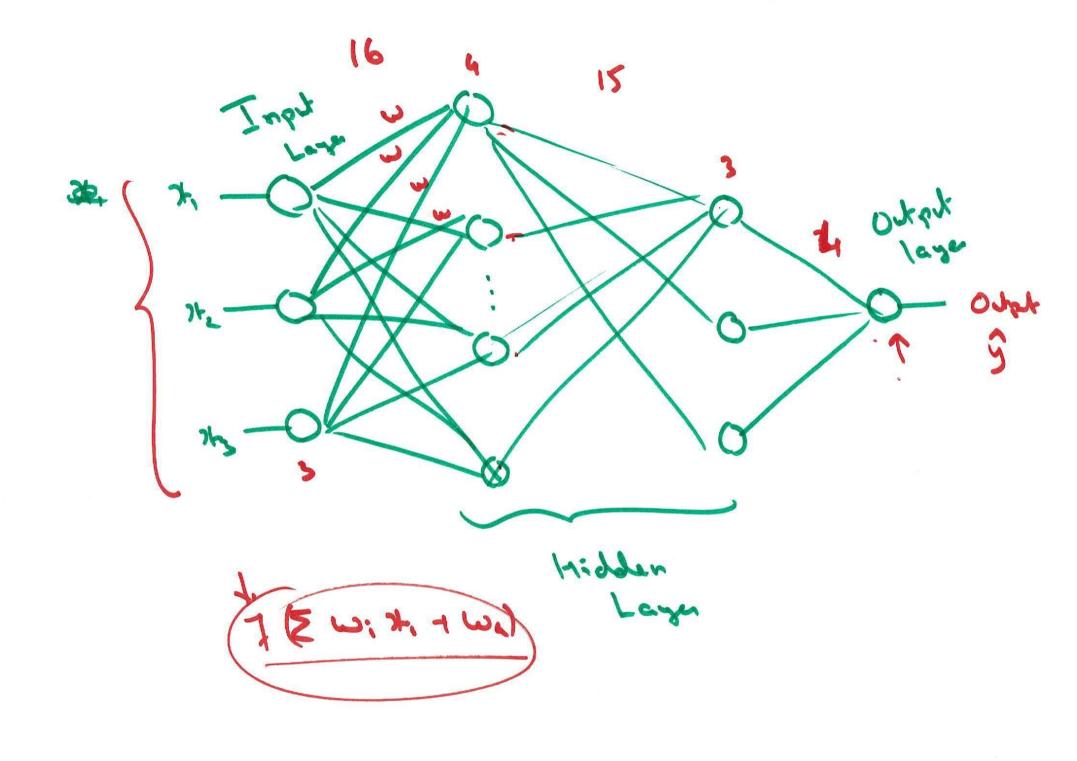


## An Example



## An Example





Silmaig Out 7 = 7 (Ew: +: + w2)