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pirmais dock

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- The sigmoid function (or logistic)

$$\phi(x)\frac{1}{1+exp(-x)}$$

- The hyperbolic tangent function("tanh")

$$\phi(x)\frac{exp(x)-exp(-x)}{exp(x)+exp(-x)} = \frac{exp(2x)-1}{exp(2x)+1}$$

- The hard threshold function

$$\phi\beta(x) = 1_{x\geq\beta}$$

- The Rectified Linera Unit (ReLU) activation function

$$\phi(x) = max(0,x)$$

Here is a schematic representation of an artificial neuron where $\sum = (\omega_j, x)+$ b_j