

$$f: \mathbb{R}^n \rightarrow \mathbb{R}^p$$

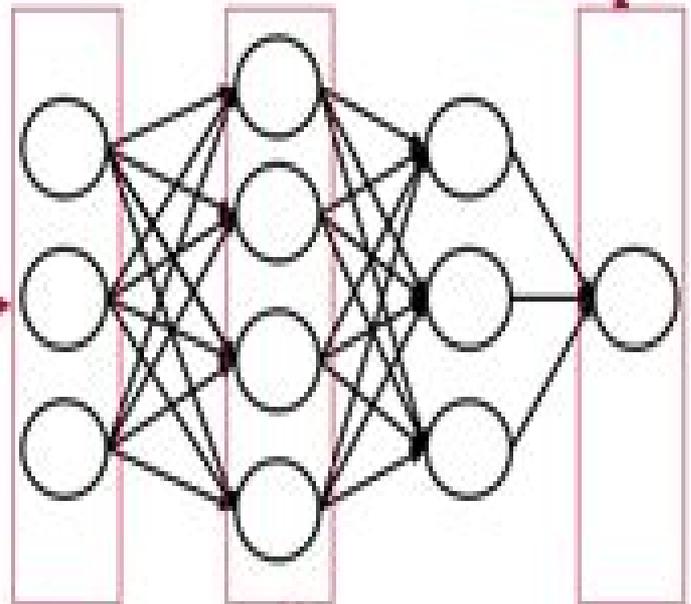
$$f(x) = g \circ f_K \circ \dots \circ f_2 \circ f_1(x)$$

$$f_i: \mathbb{R}^{n_i} \rightarrow \mathbb{R}^{n_{i+1}}$$

$$f_i(x) = a(w_i x + b_i)$$

$$f(x) = g \circ f_K \circ \dots \circ f_2 \circ f_1(x)$$

$$= g(a(\dots a(w_2 a(w_1 x + b_1) + b_2) \dots + b_K))$$



$$z_i = w_i x_{i-1} + b_i$$

$$a_i = \sigma(z_i)$$

Regression : $g(x) = w_{K+1}x + b_{K+1}$

Binary classification : $g(x) = \frac{1}{1 + e^{-(w_{K+1}x + b_{K+1})}}$

Multiclass classification : $g(x)_j = \frac{e^{(w_{K+1}^j x + b_{K+1}^j)}}{\sum_{k=1}^N e^{(w_{K+1}^k x + b_{K+1}^k)}}$

$$\sigma(z) = \frac{1}{1 + e^{-z}}$$

$$\tanh(z) = \frac{e^z - e^{-z}}{e^z + e^{-z}}$$

$$\text{ReLU}(x) = \max\{0, x\}$$



Introduction To The Math Of Neural Networks

Shasha Hu



Introduction To The Math Of Neural Networks:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Introduction To The Math Of Neural Networks**

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