

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

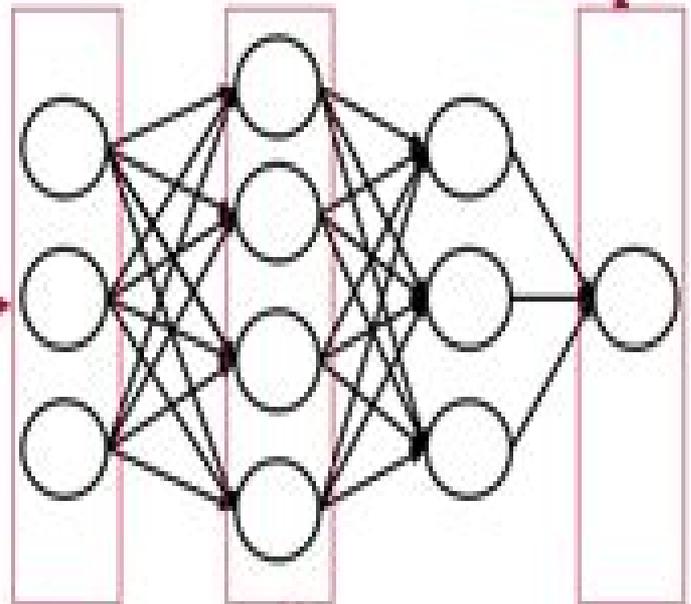
$$f(x) = g \circ f_K \circ \dots \circ f_2 \circ f_1(x)$$

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

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

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

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



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

$$a_i = \sigma(z_i)$$

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

**LL Leslie**



## **Introduction To The Math Of Neural Networks:**

## Decoding **Introduction To The Math Of Neural Networks**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Introduction To The Math Of Neural Networks**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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