

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

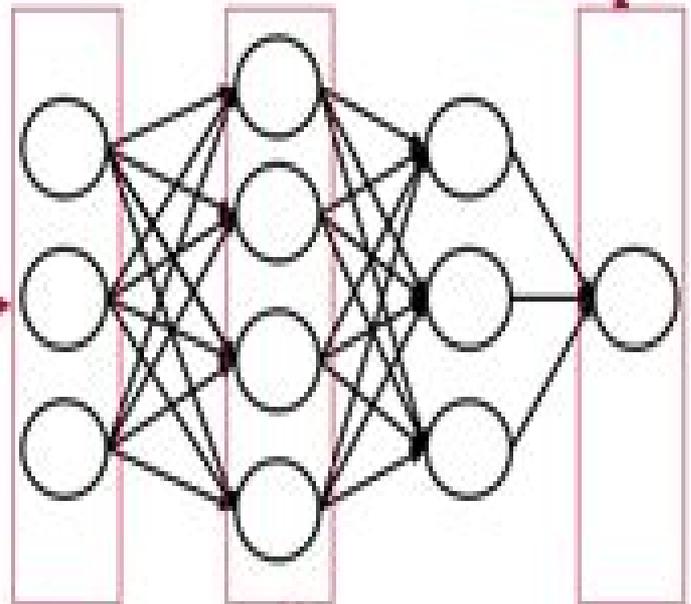
$$f(x) = g \circ f_K \circ \dots \circ f_2 \circ f_1(x)$$

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

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

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

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



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

$$a_i = \sigma(z_i)$$

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

**Rachel S Tattersall**



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

## **Introduction To The Math Of Neural Networks** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Introduction To The Math Of Neural Networks**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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