2025-07-15 - Explain the fundamental concepts in neural network and deep learning

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1, Mean Absolute Enror: (Kegnessin Based)

$$Emil = y_i - y_i$$

$$SAE = \sum_{i=1}^{n} |\dot{y_i} - \dot{y_i}|$$

$$MAE = \frac{1}{N} \left[\frac{n}{y_i} \right] y_i - y_i$$

Robability Probable 12.05 A Lyesthocks Nolfalselo => Multi-habel Classification: Itis Destiset Activation (Softmax)

Softmax 1 No -5 1 1.2 10.7 Aymen 1.2 10.7 Ve 1.5.3 10.2 $Shear = \frac{e^{x}p^{x_i}}{\sum_{i}^{n} e^{x}p^{x_i}}$ => Controsicul Cross Entropy (hogarithmic CCG) Lece = $-\sum_{i=1}^{\infty} \left(y_i \times l_{\mathcal{S}}(\hat{y_i}) \right)$

Johnson vez Optimizus = 5 Local Minima of Global Minima = 5 Local Maxima of Global Maxima Convagance