Update sule for linear function

$$\frac{dL}{d\omega_{2}} = \frac{dL}{d\alpha_{2}} \times \frac{d\alpha_{1}}{d\alpha_{2}} \times \frac{dz}{d\omega_{2}}$$

$$= \left[ -\frac{y}{\alpha_{2}} - \frac{1-y}{1-\alpha_{1}} \right] \alpha_{2} \left( 1-\alpha_{2} \right) \cdot \alpha_{1}$$

$$\frac{dL}{dw_2} = (a_2 - y)a_1$$

$$\frac{dL}{db_2} = a_2 - y$$

$$\frac{dL}{dw_1} = \frac{dL}{da_2} \frac{da_1}{da_2} \frac{da_1}{da_1} \frac{da_1}{da_1} \frac{da_1}{da_1} \frac{da_1}{dw_1}$$

$$= (\alpha_2 - y) \cdot \omega_2 \cdot 1 \cdot x$$

$$\frac{dL}{db_1} = (a_2 - y) w_2$$

Updal suite for tanh activation function

$$f(x) = 1 - f(x)^2$$

$$\frac{dL}{d\omega_2} = (\alpha_2 - y) \cdot \alpha_1$$

$$\frac{dL}{db_2} = \alpha_2 - y$$

$$\frac{dL}{d\omega_1} = \frac{dL}{da_2} \cdot \frac{da_2}{da_2} \cdot \frac{da_2}{da_1} \cdot \frac{da_1}{da_2} \cdot \frac{da_2}{d\omega_1}$$

$$= (a_2 - y) \cdot \omega_2(1 - a_1^2) \times$$