Bochprop Pecipe For Pringle Network

1) to little out Ped Toget Error 2) Get gatient for every single neuron

2) We went 6 gradient 2

3)
$$\frac{dE}{dy_1} = y - d = 0.757 - 0.01 = 0.75$$

6) $\frac{dE}{dy_2} = -n = 0.772 - 0.99 = -0.218$

6) $\frac{dE}{dy_3} = -n = 0.772 - 0.99 = -0.218$

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 $\frac{1}{2} \left(\frac{1}{2} \right) \frac{\partial E}{\partial x_{1}} = \frac{\partial E}{\partial x_{1}} \cdot \sigma'(\xi_{1}) \cdot w_{2} + \frac{\partial E}{\partial z} \cdot \sigma'(\xi_{12}) \cdot w_{8}$

a)
$$\frac{\partial E}{\partial y_4} = y - d = 0.757 - 0.01 = 0.75$$

$$\frac{\partial E}{\partial y_2} = -10 = 0.772 - 0.09 = -0.213$$

$$\frac{\partial E}{\partial y_2} = \frac{\partial E}{\partial y_4} \cdot \sigma'(\xi_{h_4}) \cdot W_3 + \frac{\partial E}{\partial y_2} \cdot \sigma'(\xi_{h_4}) \cdot W_3 + \frac{\partial E}{\partial y_4} \cdot \sigma'(\xi_{h_4}) \cdot W_3 + \frac{\partial E}{\partial y_4} \cdot \sigma'(\xi_{h_4}) \cdot W_4$$

$$\frac{\partial E}{\partial y_4} = \frac{\partial E}{\partial y_4} \cdot \sigma'(\xi_{h_4}) \cdot W_5 + \frac{\partial E}{\partial y_2} \cdot \sigma'(\xi_{h_4}) \cdot W_4$$