

$$h_1 = 0.05^{*}0.15 + 0.10^{*}0.70 + 0.35 = 0.3775 \rightarrow \frac{1}{1+e^{-0.375}} = 0.59326$$
 $h_2 = 0.05^{*}0.25 + 0.10^{*}0.30 + 0.35 = 0.3925 \rightarrow \frac{1}{1+e^{-0.3825}} = 0.59688$

Backpropagation

$$E_{t \circ t_{\alpha} l} = \sum_{i=1}^{m} \frac{1}{2} (t - \alpha)^{2} \rightarrow \frac{1}{2} (0.01 - 0.751)^{2} + \frac{1}{2} (0.99 - 0.772)^{2} = 0.2985$$

$$0.2745 \qquad 0.0235$$

$$\frac{d E_t}{doutPuty_1} = \frac{1}{2} \left(t - outy_1 \right)^2 + \frac{1}{2} \left(t - outy_2 \right)^2 - > 2^* \frac{1}{2} \left(t - outy_1 \right)^{*} - 1 + 0$$

$$(0.01 - 0.751)^{*} - 1 = 0.741$$

$$\frac{dy'}{dw^{5}} = W_{5}h_{1} + W_{6}h_{2} + b \longrightarrow h_{1} = 0.5968$$