

ג'נ'ע

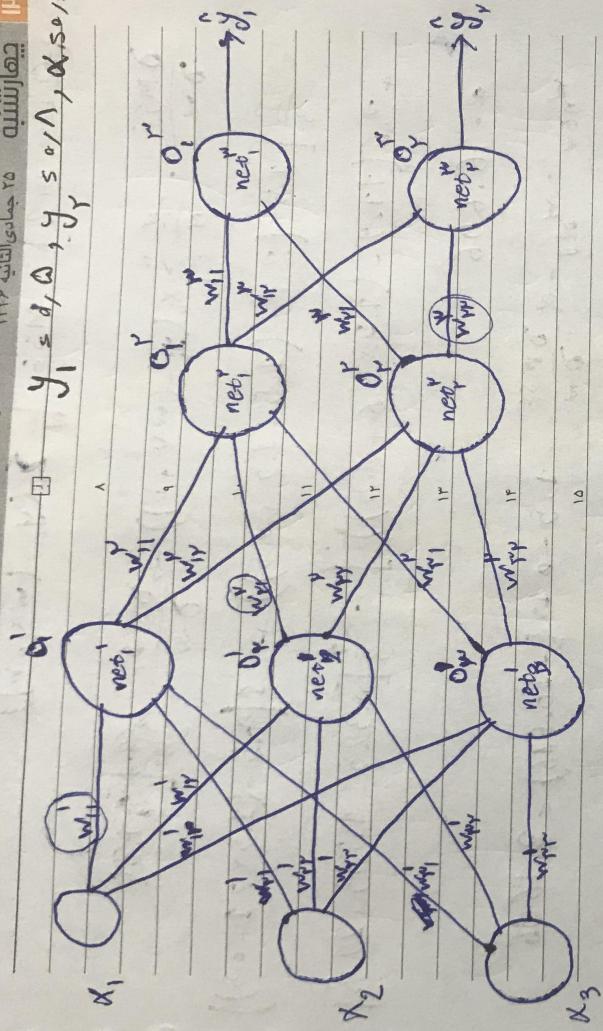
2015 **16** April Thursday

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בְּרִכָּה

2015 April 15 Wednesday

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April | Friday

$$+ b_1 = (x_1 \times x_5) + (x_1 \times x_6) + (x_2 \times x_5) + (x_2 \times x_6)$$

\Rightarrow $\{ \text{Rehn} \}$ net ≤ 0 r. \rightarrow $0 = \text{net} \in \sigma^f q$

$$m_{\nu_1} = m_{\nu_2} + \frac{1}{2} m_{\nu_3} + m_{\nu_4} + m_{\nu_5} + m_{\nu_6} + m_{\nu_7} + m_{\nu_8} + m_{\nu_9} + m_{\nu_{10}} + m_{\nu_{11}} + m_{\nu_{12}}$$

$$O_1 = 0.10^{\text{th}}$$

$$n_{\text{eff}} = \sqrt{\chi_1 + \chi_2} = \sqrt{\chi_1 + k_{\mu\nu}^2} = \sqrt{\chi_1 + (0.1 \times 0.1)^2} + (0.1 \times 0.1) + (0.1 \times 0.1) = 0.11$$

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18 April Saturday 2015

$$\begin{aligned}
 \text{net}_1 &= w_1' O_1 + w_2' O_2 + w_3' O_3 + w_4' O_4 = (0.1 \times 0.89) + (0.2 \times 0.89) + (0.3 \times 0.89) + (0.4 \times 0.89) \\
 &= 0.89 \times 1 \rightarrow \tanh \frac{x - \text{net}}{e^{\text{net}} - e^{-\text{net}}} \rightarrow 0.89 \tanh(\text{net}) = \frac{e^{\text{net}} - e^{-\text{net}}}{e^{\text{net}} + e^{-\text{net}}} = \frac{e^{0.89} - e^{-0.89}}{e^{0.89} + e^{-0.89}}
 \end{aligned}$$

$$m_{ij} = w_{1j}^T \theta_1 + w_{2j}^T \theta_2 + w_{3j}^T \theta_3 + b_j \leq (w_1^T x_j) + (w_2^T x_j) + (w_3^T x_j) + b_j$$

$$+ \alpha_1^2 \leq \sigma_{\text{NN}} \Rightarrow \alpha_1^2 = \tanh(\text{net}_1) = \frac{e^{\text{net}_1} - e^{-\text{net}_1}}{e^{\text{net}_1} + e^{-\text{net}_1}} \leq 0.711$$

183/10 = 10 \leftarrow

$$\text{net} = \text{W}_1 - \text{O}_1 + \text{W}_2 - \text{O}_2 + \dots + \text{W}_{10} - \text{O}_{10} = (\text{W}_1 - \text{O}_1) + (\text{W}_2 - \text{O}_2) + \dots + (\text{W}_{10} - \text{O}_{10})$$

$$\Rightarrow \theta = 6(\text{net}) = \frac{1 - e^{-0.4 \times 1.9}}{1 + e^{-0.4 \times 1.9}} = 0.4 \sqrt{e^2 - 1} \approx 0.4$$

$$\text{met}_i = \frac{\eta_i}{\eta} \text{O}_i^T + \eta_i \text{v}_i^T \text{O}_i^T + b_i^T = (\eta_i \text{O}_i \text{v}_i^T)^T + (\eta_i \text{O}_i \text{v}_i^T)^T = \eta_i \text{O}_i \text{v}_i^T$$

$$\Rightarrow O_1 = 6 \left(\frac{\text{net}_1}{\text{net}_1} \right) = \frac{1}{1 - 0.171} \approx 0.98 \Leftrightarrow \hat{y}_1 = 0$$

$$W_{\text{V}}^{\mu}(\text{new}) = W_{\text{V}}^{\mu} \left(\text{old} \right) + \frac{d}{dW_{\text{V}}^{\mu}} \left[\ln \left(\frac{W_{\text{V}}^{\mu}(\text{new})}{W_{\text{V}}^{\mu}(\text{old})} \right) \right] dW_{\text{V}}^{\mu}$$

$$\begin{aligned}
 &= M_{\text{net}} - \alpha \left[\frac{1}{N} \sum_{i=1}^N (y_i - \hat{y}_i) \times (6(\text{net}_i) - (1 - 6(\text{net}_i))) \right] \\
 &\quad \times \left[\frac{1}{N} \left[\left(\frac{1}{N} \sum_{i=1}^N (y_i - \hat{y}_i)^2 \right) + \left(\frac{1}{N} \sum_{i=1}^N (6(\text{net}_i) - (1 - 6(\text{net}_i)))^2 \right) \right] \right] \\
 &\quad \times \left[\frac{1}{N} \left[\left(\frac{1}{N} \sum_{i=1}^N (y_i - \hat{y}_i)(6(\text{net}_i) - (1 - 6(\text{net}_i))) \right) \right] \right]
 \end{aligned}$$

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21 April Tuesday

Monday ٢٠١٣/١٢/٢٠١٣
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 دادخواهی
 $w_{\text{H}}(\text{new}) = w^{\star} - \alpha \frac{\partial L}{\partial w^{\star}} = w^{\star} - \alpha \nabla J(w^{\star}) - \alpha$

$$\frac{dnet_i}{dw_{ij}^r} = \left[\frac{dL}{d\hat{o}_j^r} \frac{\partial \hat{o}_j^r}{\partial w_{ij}^r} \frac{\partial net_i}{\partial \hat{o}_j^r} \right] + \left[\frac{dL}{d\hat{o}_i^r} \frac{\partial \hat{o}_i^r}{\partial w_{ij}^r} \frac{\partial net_i}{\partial \hat{o}_i^r} \right]$$

$$= w_i^{(old)} - \alpha \left(\sum_{j=1}^N (y_j - \hat{y}_j) \left(\delta(\text{net}_i^{(n)}) (1 - \delta(\text{net}_i^{(n)})) \right) (w_{ij}^{(n)}) \right)$$

$$\left(\delta_{ij} \right) + \left[\frac{-\gamma}{N} \sum_{i=1}^N \left(y_i - \hat{y}_i \right) \left(\delta \left(net_i \right) \left(1 - \delta \left(net_i \right) \right) \right) \left(w_{ij}^{(r)} \right) \left(1 - tanh \left(net_i^{(r)} \right) \right) \right]$$

$$\left(\frac{d_1}{d_2} \right) = \alpha R - \alpha \beta \left[\left(\frac{\alpha}{\beta} \left(1 - \alpha R \sqrt{\beta} \right) + \left(\alpha R - \alpha \beta \sqrt{\beta} \right) \right) \right] \alpha \left(\alpha R \sqrt{\beta} \right)$$

$$= \left(1 - \alpha_2 \sqrt{\frac{1}{\lambda}}\right) \left(\alpha_2 \left(1 - \alpha_1 \frac{1}{\lambda}\right)\right) + \left(\frac{1-\alpha_2}{\lambda} \left[\alpha_1 \left(1 - \alpha_1 \frac{1}{\lambda}\right)^2\right] + \left[1 - \alpha_1 \frac{1}{\lambda}\right]\right)$$

$$\left[\frac{1}{\alpha_1 \cdot 10^{-3}} + \left(\frac{1}{\alpha_1} - \frac{1}{\alpha_2} \right) \cdot 10^{-3} \right] = 10^3 \cdot \left[\frac{1}{\alpha_1} - \frac{1}{\alpha_2} \right]$$

$\Rightarrow w_1 \text{ (new)}$

$$m = 78 \text{ nm}$$

$$\frac{d\sigma_i}{dnet_i} = \left[\frac{\partial L}{\partial y_i} \right] + \left[\frac{\partial L}{\partial y_i} \frac{\partial y_i}{\partial w_{ii}} \frac{\partial w_{ii}}{\partial net_i} \frac{\partial net_i}{\partial o_i} \frac{\partial o_i}{\partial net_i} \frac{\partial net_i}{\partial w_{ii}} \right]$$

