

例的传播:

$$\geq n_1 = i_1 \cdot w_1 + i_2 \cdot w_2 + b_1$$

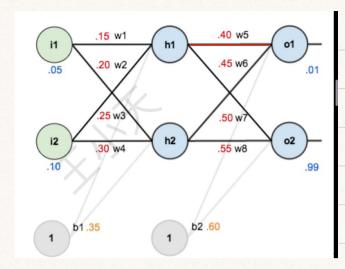
Sigmod: 1

$$a_{01} = 1 + e^{-z_{01}}$$
 $a_{h_1} = 1 + e^{-z_{h_1}}$

aq间理.

输出: [0.7513, 0.7779]

反向传播



①损失函数

$$E_{01} = \frac{1}{2} (0.01 - 0.7513)^{2}$$
 E total = $E_{01} + E_{02}$
 $E_{02} = \frac{1}{2} (0.99 - 0.7729)^{2}$ = 0.2984

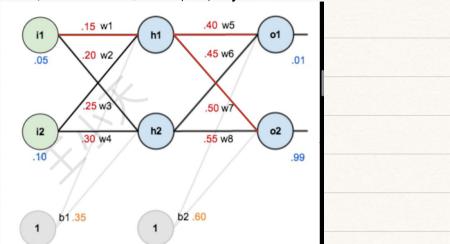
见者 此前巨total 的 偏多。 Extent 中与此有美丽: $Q_{0_1} \Rightarrow Z_{0_1} \Rightarrow Z_{0_1} = a_{h_1} \cdot w_s + a_{h_2} \cdot w_s + b_{h_2}$

$$\frac{\Delta E_{totul}}{\Delta \alpha_{0}} = 2x \frac{1}{2} \left(t_{uvget_{0}} - \alpha_{0} \right) \times -1$$

$$= \alpha_{0} - t_{uvget_{0}} = 0.7513 - 0.01 = 0.7413$$

③更新权重· NAOS

同避可得: Wb+, Wb+ , Wb+



$$\overline{\mathcal{E}h} W_{1} \stackrel{Eo_{2}}{\longrightarrow} 2o_{2} \rightarrow 2h_{1} \rightarrow 2h_{1} \rightarrow w_{1}$$

$$\overline{\mathcal{E}h} W_{1} \stackrel{Etotal}{\longrightarrow} Eo_{1} \longrightarrow 2o_{1} \longrightarrow 2o_{1} \longrightarrow 2o_{1} \longrightarrow 2o_{2} \longrightarrow 2o_{2}$$

$$\Rightarrow \frac{\Delta E_{\text{total}}}{\Delta a h_{1}} = \frac{\Delta E_{0}}{\Delta a h_{1}} + \frac{\Delta E_{0}}{\Delta a h_{1}}$$

$$\frac{da_{n}}{dz_{n}} = a_{n} + (1-a_{n}) = 0.2413$$

$$\frac{dz_{n}}{dz_{n}} = i_{1} = 0.25$$