

$$|Z^{[1]} = \omega^{[1]} \times + \delta^{[1]}$$

$$|a^{[1]} = \delta(Z^{[1]})$$

$$|a^{[2]} = \omega^{[2]} a^{[1]} + \delta^{[2]}$$

$$|a^{[2]} = \delta(Z^{[2]})$$

$$|a^{[3]} = \delta(Z^{[3]}) / [3]$$

$$\begin{cases} Z^{[3]} = \omega^{[3]} a^{[2]} + b^{[3]} \\ a^{[3]} = b^{[3]} a^{[2]} + b^{[3]} \end{cases}$$

Define the loss function for the togistics

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2 (2) 2 ON ES $- \left[\begin{array}{c} (i) \\ \hline \partial \omega^{[3]} \end{array} \right] \left(\frac{1}{1} \frac{1}{1}$ $= - \left(\gamma^{(i)} \frac{1}{\alpha^{(3)}} \cdot \alpha^{(3)} \cdot (1 - \alpha^{(3)}) \cdot \alpha^{(2)} \right) +$ $+(1-\gamma^{(i)})\frac{1}{1-\alpha^{(3)}}\cdot(-1)\cdot\alpha^{(3)}\cdot(1-\alpha^{(3)})\cdot\alpha^{(2)}$

$$= - \left[\begin{array}{c} \gamma^{(i)} \left(1 - \alpha^{(i)} \right) a^{[2]T} - \left(1 - \gamma^{(i)} \right) a^{[3]} \cdot a^{[2]T} \right]$$

$$= - \left[\begin{array}{c} \gamma^{(i)} \cdot a^{[2]T} - a^{[3]} a^{[2]T} \end{array} \right]$$

$$= - \left[\begin{array}{c} \gamma^{(i)} - a^{[3]} \right] a^{[2]T}$$

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