CS542 ML PSet3

Tuesday, March 3, 2020

$$\begin{cases} \frac{1}{2} - \frac{1}{2} + \frac{1}{2} = \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{$$

 $\nabla_{\alpha^{(i)}} J = g \circ f'(\alpha^{(i)}) = g \circ h^{(i)} \circ (1 - h^{(i)})$ $= (h^{(i)} - y) \omega^{(i)} \circ (h^{(i)} - h^{(i)} \circ h^{(i)})$ $\nabla_{b^{(i)}} J = \nabla_{\alpha^{(i)}} \nabla_{\alpha^{(i)}$

 $\nabla b^{(i)} J = \nabla a^{(i)} J$

 $\nabla \omega^{(1)} J = \nabla \omega^{(1)} J h^{(2)} = \left(h^{(2)} - y \right) \left[\omega^{(2)} \cdot \left(h^{(1)} - \left[h^{(1)} \right]^2 \right) \right] h^{(6)} I$