REBEGEA IRIHA

Moe 1

$$X = \begin{pmatrix} 1 \\ 3 \\ 0 \end{pmatrix} \qquad X^{T} = \begin{pmatrix} 0, 5 & -0, 6 & -1 \\ 0, 1 & -0, 5 & -0, 5 \end{pmatrix}$$

$$\begin{pmatrix} -2 & 2 & 0, 1 \\ -2 & 2 & 0, 1 \end{pmatrix}$$

$$h = \begin{pmatrix} 0, 1 \\ 0 \end{pmatrix}$$

$$\rho = \begin{pmatrix} 0 & 1 \\ 0 & 1 \\ 0 & 1 \end{pmatrix} \qquad Q = \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

$$Z = \times \sqrt{1} \cdot \times + b = \begin{pmatrix} 0.5 & -0.6 & -1 \\ 0.1 & -0.5 & -0.5 \\ -2 & 2 & 0.1 \end{pmatrix} \begin{pmatrix} 1 \\ 5 \\ 0 \end{pmatrix} + \begin{pmatrix} 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ -2 & 2 & 0.1 \end{pmatrix} \begin{pmatrix} 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0$$

$$= \begin{pmatrix} 0,3-1,8\\0,1-1,5\\-2+6 \end{pmatrix} + \begin{pmatrix} 0,1\\0,1\\0,1 \end{pmatrix} = \begin{pmatrix} -1,4\\-1,3\\4,1 \end{pmatrix}$$

$$\hat{y} = \text{postmax}(\chi) = \text{postmax}(-1, 4) = \frac{e^{-1, 4}}{e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4} + e^{-1, 3}} = \frac{e^{-1, 4}}{e^{-1, 4}} = \frac{e^{-1, 4}}$$

$$\hat{y}_{2} = \text{Defamax}(2) = 0,004$$
 $\hat{y}_{3} = \text{Defamax}(2) = 0,004$ 
 $\hat{y}_{3} = \text{Defamax}(2) = 0,004$ 
 $\hat{y}_{3} = \text{Defamax}(2) = 0,991$ 

$$b = b - m \nabla_b L = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} - 0.1 \begin{pmatrix} 0.004 \\ -0.996 \\ 0.991 \end{pmatrix} = \begin{pmatrix} 0.1 \\ 0.1 \\ 0.1 \end{pmatrix} - \begin{pmatrix} 0.0004 \\ -0.0996 \\ 0.0991 \end{pmatrix}$$

$$= \begin{pmatrix} 0,0996 \\ 0,1996 \\ 0,0009 \end{pmatrix}$$

$$\frac{5Au}{w_{1}} = \begin{pmatrix} 0, 3 \\ 0, 1 \end{pmatrix} \qquad w_{2} = \begin{pmatrix} -0, 6 \\ -0, 5 \end{pmatrix} \qquad w_{3} = \begin{pmatrix} -1 \\ -0, 5 \end{pmatrix}$$

$$Z_{1} = w_{1}^{T} \cdot x + b_{1} = \begin{pmatrix} 0, 3 & 0, 1 & -2 \end{pmatrix} \begin{pmatrix} 1 \\ 3 \\ 0 \end{pmatrix} + 0, 1 = \begin{pmatrix} 0, 3 + 0, 3 + 0, 1 = 0, 7 \end{pmatrix}$$

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