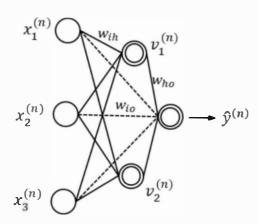
2.



$$\frac{1}{2} \int_{0}^{\infty} \left( z^{(n)} \right), \quad z^{(n)} = \int_{0}^{\infty} u_{ho} v_{h}^{(n)} + \int_{0}^{\infty} w_{io} \chi_{i}^{(n)} \int_{0}^{\infty} \frac{\partial L_{oss}}{\partial w_{io}} = \int_{0}^{\infty} \frac{\partial L_{oss}}{\partial \hat{y}^{(n)}} \frac{\partial \hat{y}^{(n)}}{\partial z^{(n)}} \frac{\partial \hat{y}^{(n)}}{\partial w_{io}} \frac{\partial \hat{y}^{(n)}}{\partial w_{io}} = \int_{0}^{\infty} \frac{\partial L_{oss}}{\partial \hat{y}^{(n)}} \frac{\partial \hat{y}^{(n)}}{\partial z^{(n)}} \frac{\partial z^{(n)}}{\partial w_{io}} \frac{\partial z^{(n)}}{\partial w_{io}} = \int_{0}^{\infty} \frac{\partial L_{oss}}{\partial \hat{y}^{(n)}} \frac{\partial L_{oss}}{\partial z^{(n)}} \frac{\partial$$

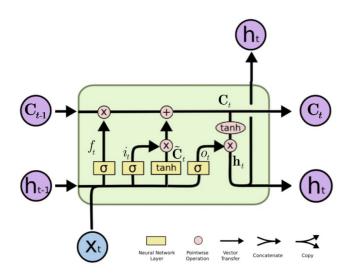
$$\mathcal{E}(x) = \frac{1}{1 + \bar{e}^x} \Rightarrow \mathcal{E}'(x) = \frac{e^{-x}}{(1 + \bar{e}^x)^2} = \mathcal{E}(x) \cdot (1 - \mathcal{E}(x))$$

$$\frac{1}{1 + \bar{e}^x} \Rightarrow \mathcal{E}'(x) = \frac{e^{-x}}{(1 + \bar{e}^x)^2} = \mathcal{E}(x) \cdot (1 - \mathcal{E}(x))$$

c) 
$$\frac{\partial \mathcal{L}_{03}}{\partial x_{i}^{(n)}} \cdot \frac{\partial \mathcal{L}_{03}}{\partial x_{i}^{(n)}} = \frac{\partial \mathcal{L}_{03}}{\partial \hat{y}^{(n)}} \cdot \frac{\partial \hat{y}^{(n)}}{\partial z^{(n)}} \cdot \frac{\partial \hat{y}^{(n)}}{\partial x_{i}^{(n)}} \cdot \frac{\partial \mathcal{L}_{03}}{\partial x_{i}^{(n)}$$

$$(\hat{\beta} \frac{\partial L_{0,1}}{\partial x_{i}^{(h)}} = 2(\hat{y}^{(h)} - y^{(h)}) \hat{y}^{(h)} (1 - \hat{y}^{(h)}) \left( I_{h} v_{h}^{(h)} (1 - v_{h}^{(h)}) w_{ih} w_{hh} + w_{io} \right)$$

故多数建订公式为
$$x^{(n)} \leftarrow x^{(n)} - y \frac{\partial L_{0ij}}{\partial x_i^{(n)}}$$
 , 其中 $\frac{\partial L_{0ij}}{\partial x_i^{(n)}}$ ,由上式给出



(1) 
$$f_t = 6 \left( W f \left[ h_{t-1}, \chi_t \right] \right) = 6 \left( \left[ o.s \ o.s \right] \left[ \begin{smallmatrix} o \\ i \end{smallmatrix} \right] \right) = 6 \left( o.s \right) = 0.6225$$
 $i_t = 6 \left( W_i \left[ h_{t-1}, \chi_t \right] \right) = 6 \left( \left[ o.4 \ o.4 \right] \left[ \begin{smallmatrix} o \\ i \end{smallmatrix} \right] \right) = 6 \left( o.4 \right) = 0.5987$ 
 $\widetilde{C}_t = \tanh \left( W_c \left[ h_{t-1}, \chi_t \right] \right) = \tanh \left( \left[ o.4 \ o.4 \right] \left[ \begin{smallmatrix} o \\ i \end{smallmatrix} \right] \right) = \tanh \left( o.4 \right) = 0.3789$ 
 $0_t = 6 \left( W_o \left[ h_{t-1}, \chi_t \right] \right) = 6 \left( \left[ o.5 \ o.5 \right] \left[ \begin{smallmatrix} o \\ i \end{smallmatrix} \right] \right) = 6 \left( o.5 \right) = 0.6225$ 
 $C_t = f_t C_{t-1} + it \widetilde{C}_t = 0.6225 \times 0 + 0.5987 \times 0.3789 = 0.2275$ 
 $h_t = o_t \cdot \tanh \left( C_t \right) = 0.6225 \times \tanh \left( o.2275 \right) = 0.1382$ 

(2) 我似识为hty, Ctyl 与xt无高格度(如处久关注单个时间号),先函出间平的计并图

