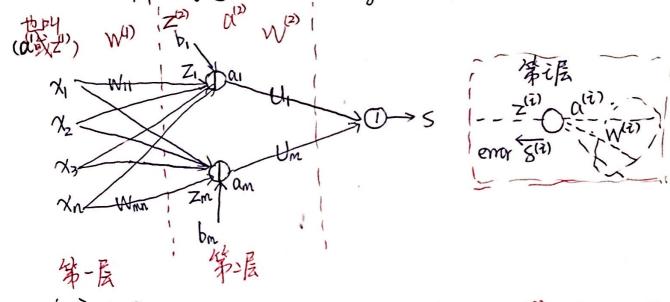
Backward Propagation 反同传播

NER task:判断中心词是否为 Named Entity, 是输出高分数.



O Elemental Back-Prop.

$$\theta^{(t+1)} = \theta^{(t)} - 2\nabla_{\theta^{(t)}}$$

$$\frac{\partial S}{\partial W_{ij}^{(1)}} = \frac{\partial V_{\theta}(S)}{\partial W_{ij}^{(2)}} = \frac{\partial W_{i}^{(2)} Q_{i}^{(2)}}{\partial W_{ij}^{(1)}} = W_{i}^{(2)} \frac{\partial Q_{i}^{(2)}}{\partial W_{ij}^{(2)}} = W_{i}^{(2)} \frac$$

bias update (share error / gradients until
$$8i^2$$
)
$$\frac{\partial S}{\partial b^2} = Si^2 \frac{\partial Z_i^{(2)}}{\partial b^{(1)}} = S_i^{(2)} \cdot 1 = S_i^{(2)}$$

$$\frac{\partial b_1^{(i)}}{\partial b_2^{(i)}} = \frac{\partial b_2^{(i)}}{\partial b_2^{(i)}} = \frac{\partial$$

chain rule (k)

dimital dim

(以前中记去校的展,注记层)

Si ai

$$\nabla b^{(k)} = \delta^{(k+1)}$$

$$= \left[\delta_1^{(k+1)}, \delta_2^{(k+1)}, \dots \right]$$