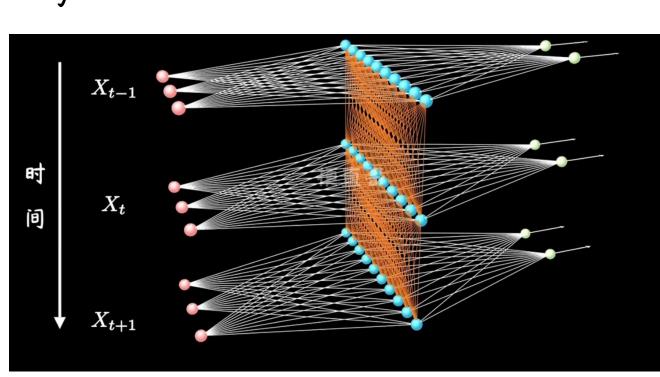
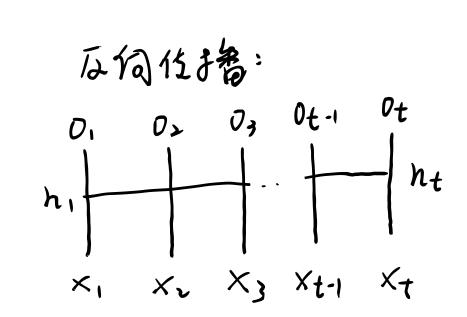
们面部和我们的格



在本本文的是有关联的

個如图和的三层和统网路为:Size(1XS) visive (1x1) 复编为为X;Size(IXn) Wxh;Size(nxS) Wnn;Size(SXS) ht = Wan Xt + Wnn ht-1 + bh

0 = Who o(ht) + bo



这义杨规则数 J=J1(01) + J2(02) + ... + J+ (0+)

一个个的子。高王其中的的偏显元

 $h_1 = \sigma(UX_1 + whv)$ $h_2 = \sigma(UX_2 + whv)$ $h_3 = \sigma(UX_3 + whv)$ $y_1 = vh_1$ $y_2 = vh_2$ $y_3 = vh_3$

 $L = \sum L_i$

在は当時かりみずひ、いれ作品等

$$\frac{\partial L_3}{\partial V} = \frac{\partial L_3}{\partial Y_3} \frac{\partial Y_3}{\partial V}$$

$$\frac{\partial L_{3}}{\partial V} = \frac{\partial L_{3}}{\partial y_{3}} \frac{\partial y_{5}}{\partial V}$$

$$\frac{\partial L_{5}}{\partial U} = \frac{\partial L_{5}}{\partial y_{3}} \frac{\partial y_{5}}{\partial V}$$

$$\frac{\partial L_{5}}{\partial U} = \frac{\partial L_{5}}{\partial y_{3}} \frac{\partial y_{5}}{\partial h_{3}} \left(\frac{\partial h_{5}}{\partial U} + \frac{\partial h_{5}}{\partial h_{1}} \left(\frac{\partial h_{2}}{\partial U} + \frac{\partial h_{1}}{\partial h_{1}} \frac{\partial h_{1}}{\partial U} \right) \right) = \sum_{R=1}^{2} \frac{\partial L_{5}}{\partial y_{4}} \frac{\partial h_{1}}{\partial h_{1}} \frac{\partial h_{2}}{\partial U} = \frac{\partial L_{5}}{\partial y_{5}} \frac{\partial y_{5}}{\partial h_{1}} \left(\frac{\partial h_{2}}{\partial U} + \frac{\partial h_{2}}{\partial h_{1}} \left(\frac{\partial h_{2}}{\partial U} + \frac{\partial h_{2}}{\partial h_{1}} \frac{\partial h_{1}}{\partial U} \right) \right) = \sum_{R=1}^{2} \frac{\partial L_{5}}{\partial y_{4}} \frac{\partial h_{2}}{\partial h_{1}} \frac{\partial h_{2}}{\partial U} = \frac{\partial L_{5}}{\partial h_{2}} \frac{\partial y_{5}}{\partial h_{3}} \left(\frac{\partial h_{3}}{\partial U} + \frac{\partial h_{2}}{\partial h_{1}} \left(\frac{\partial h_{2}}{\partial U} + \frac{\partial h_{2}}{\partial h_{1}} \frac{\partial h_{1}}{\partial U} \right) \right) = \sum_{R=1}^{2} \frac{\partial L_{5}}{\partial y_{4}} \frac{\partial h_{1}}{\partial h_{1}} \frac{\partial h_{2}}{\partial U} = \frac{\partial L_{5}}{\partial h_{2}} \frac{\partial h_{3}}{\partial U} = \frac{\partial L_{5}}{\partial h_{3}} \left(\frac{\partial h_{3}}{\partial U} + \frac{\partial h_{3}}{\partial h_{1}} \left(\frac{\partial h_{2}}{\partial U} + \frac{\partial h_{3}}{\partial h_{1}} \left(\frac{\partial h_{2}}{\partial U} + \frac{\partial h_{3}}{\partial h_{1}} \right) \right) = \sum_{R=1}^{2} \frac{\partial L_{5}}{\partial y_{4}} \frac{\partial h_{1}}{\partial h_{1}} \frac{\partial h_{2}}{\partial U} = \frac{\partial L_{5}}{\partial h_{2}} \frac{\partial h_{3}}{\partial U} = \frac{\partial L_{5}}{\partial h_{3}} \frac{\partial h_{3}}{\partial U} = \frac{\partial L_{5}}{\partial U} = \frac{\partial$$

$$\frac{\partial L_3}{\partial W} = \frac{\partial L_3}{\partial y_3} \frac{\partial y_3}{\partial h_3} \left(\frac{\partial h_3}{\partial W} + \frac{\partial h_3}{\partial h_2} \left(\frac{\partial h_2}{\partial W} + \frac{\partial h_2}{\partial h_1} \frac{\partial h_1}{\partial W} \right) \right) = \frac{\partial L_4}{\partial y_4} \frac{\partial y_4}{\partial h_4} \frac{\partial}{\partial h_2} \frac{\partial}{\partial W}$$

 $\frac{\partial \mathcal{L}}{\partial V} = \frac{1}{5} \frac{\partial \mathcal{L}}{\partial V} = \frac{1}{5} \frac{\partial \mathcal{L}}{\partial V} \frac{\partial \mathcal{L}}{\partial V}$

$$\frac{\partial V}{\partial V} = \frac{1}{t=1} \frac{\partial V}{\partial V} = \frac{1}{t=1} \frac{\partial$$

$$\frac{\partial \mathcal{L}}{\partial w} = \sum_{t=1}^{T} \frac{\partial \mathcal{L}t}{\partial y_t} \frac{\partial \mathcal{Y}t}{\partial h_t} \frac{\dot{\mathcal{L}}}{R=1} \frac{\partial h_t}{\partial h_R} \frac{\partial h_R}{\partial w}$$

(Rule) o'= diag (0.1,...)

$$\frac{\partial \mathcal{L}}{\partial V} = \frac{1}{\sum_{t=1}^{N}} \frac{\partial \mathcal{L}}{\partial V} = \frac{1}{\sum_{t=1}^{N}} \frac{\partial \mathcal{L}}{\partial V}$$

$$\frac{\partial \mathcal{L}}{\partial V} = \frac{1}{\sum_{t=1}^{N}} \frac{\partial \mathcal{L}}{\partial V} + \frac{\partial \mathcal{L}}{\partial V} +$$

 $\mathcal{G} = \mathcal{J}(\mathbf{x}) \quad \text{if } \mathbf{x} \times \mathcal{G} \in \mathbb{R}^n \quad \mathbb{R}^n) \quad \begin{pmatrix} \mathcal{Y}_1 \\ \vdots \\ \mathcal{Y}_n \end{pmatrix} = \mathcal{J}(\begin{pmatrix} \mathcal{X}_1 \\ \vdots \\ \mathcal{X}_n \end{pmatrix})$

代入

$$\frac{\partial L}{\partial U} = \frac{1}{2} \frac{\partial Lt}{\partial V} \frac{\partial V}{\partial h} \frac{t}{k=1} (\sigma'w)^{t-k} \frac{\partial h_{k}}{\partial W}$$

花のいくい当七中は大型のW→の号级梯座的块 なσ'w>υ 当士水は太明 &'w>m 星线棒度以来が

$$\int \frac{\partial g(u(x))}{\partial x} = \frac{\partial g}{\partial u} \frac{\partial u}{\partial x} = \frac{\partial g}{\partial u} \frac{\partial u}{\partial x}$$

$$(A \times 1)^{1} = A \qquad A \text{ Algebra XIIII.}$$

从里文观代码编译

(batch-size XT) 实际的内络输入

这公和见从从网络农有三层即有的居,隐盖是层,在的出层 上国际是风水水的一个的游的场场

上不加为在科的设计型对应的是一个咨询的one-hot编码 BWRNA input-Size为28, Dutput-Size也是28 从即部出地对这一个多母

开发记》体的 纸印建学分外 for x.y in train-iter:

国此才对纸化 ho为一个大小为 (batch-size, hidden-size) 的名字东跨军 应样(hi,hi,,hi)新足一个形如大为10分词步,horton-Size,horden-Size)的35位置

最后的知(4,1/2,...,4,)如形以为(加川生, hatch-size, 28) (28是词表大小)

L> 市区里的少加和如大是(batch-Size,14的号)

见此订第1055时需要车场

9=47. reshape (-1) 9-nat = y-nat reshape (-1, 28) (= (055 (y-hat.9)