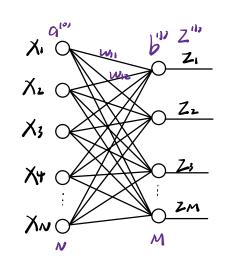
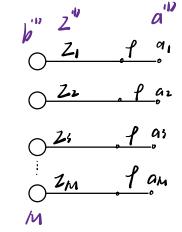
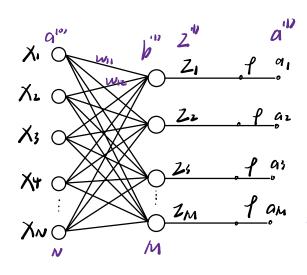
$$X = \alpha^{(0)} \Rightarrow W'X + b'' = 2^{(1)}$$

$$\begin{bmatrix} W_{11} & W_{12} & ... & W_{NN} \end{bmatrix}$$

$$W_{NN} = 2^{(1)}$$







作为第二层的输入

即:第一点 第二点 X =  $\chi$  =  $\rightarrow Z^{B'} = w^{B'} a^{B'} + b^{B'} \dots Z^{(m)} = w^{(m)} a^{(m-1)} + b^{(m)} \dots$ 7 z"= w" a"+b"=> 4= a"= f(z")

## 定义:

- ③ zh an bin 标 zh an bin的第一方量
- 田用生表示 1的第一份量

## 即算法.

- D随机初始化 W.b
- ② 训练样本 (X,Y) 行入网络 可求出 所的(Z.a, Y) 前向传播
- ③ 链球形异

献北 E= 1 11y-111 = 1 = (yi-Yi) MSE 求 起 起

$$0 \int_{1}^{\omega_{1}} = \frac{\partial E}{\partial Z_{i}^{\omega}} = \frac{\partial E}{\partial y_{i}} \frac{\partial y_{i}}{\partial z_{i}^{\omega}} = y_{i} - y_{i} - y_{i} \int_{1}^{\omega_{1}} f'(z_{i}^{\omega})$$

$$2\int_{1}^{(m)} = \frac{\partial E}{\partial z_{i}^{(m)}} = \frac{\partial E}{\partial z_{i}^{(m)}} = \frac{\partial E}{\partial z_{i}^{(m)}} = \int_{1}^{\infty} (Z_{i}^{(m)}) \frac{S_{m+1}}{Z_{i}^{(m+1)}} \frac{S_{m+1}$$

$$Z_{1}^{(m)} \xrightarrow{f} A_{1}^{(m)}$$

$$Z_{2}^{(m)} \xrightarrow{f} A_{2}^{(m)}$$

$$Z_{3m}^{(m)} \xrightarrow{f} A_{5m}^{(m)}$$

$$Z_{5m}^{(m)} \xrightarrow{f} A_{5m}^{(m)}$$

$$Z_{5m}^{(m)} \xrightarrow{f} A_{5m}^{(m)}$$

$$Z_{5m}^{(m)} \xrightarrow{f} A_{5m}^{(m)}$$

$$Z_{5m}^{(m)} \xrightarrow{f} A_{5m}^{(m)}$$

$$Z_{5m+1}^{(m)} \xrightarrow{f} A_{5m+1}^{(m)}$$

中朝: 
$$W^{(new)} = W^{(old)} - \frac{\partial E}{\partial w} |_{W^{(old)}}$$
  
 $b^{(new)} = b^{(old)} - \frac{\partial E}{\partial b} |_{b^{(old)}}$