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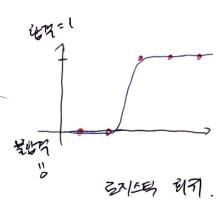
자.. 이렇게 건데? a,b 이 파내 E(a,b) 가 가감 회에 전나 전난

 $\frac{\partial E}{\partial a} = \frac{1}{N} \sum_{i=1}^{N} (ax_i + b_i - t_i) x_i$   $\Rightarrow \nabla E \left( \frac{\partial E}{\partial a} - \frac{\partial F}{\partial b} \right)$   $\frac{\partial F}{\partial b} = \frac{1}{N} \sum_{i=1}^{N} (ax_i + b_i - t_i) \cdot 1$ 

||ひる何刻 (ス、: 器AT) , スン: 名加 , 七: 公内) マリニ A,X、+ A、XL + b

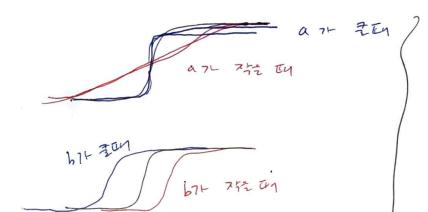
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1971M 워턴 a J는 구세한 된다.



$$E(\mathbf{a},b) = \frac{1}{N} \sum_{i=1}^{N} \frac{1}{2} \left( \phi(\mathbf{a}_{i} + b) - t_{i} \right)^{2}$$

$$= \frac{1}{N} \sum_{i=1}^{N} \frac{1}{2} \left( \phi(\mathbf{u}_{i}) - t_{i} \right)^{2}$$

$$\frac{\partial F}{\partial a} = \frac{1}{N} \sum \phi(u_{\bar{1}}) - t_{\bar{1}} \phi'(u_{\bar{1}}) \chi_{\bar{1}}$$

$$\frac{\partial F}{\partial b} = \frac{1}{2} \Delta \sum (4(u_1) - t_1) \delta'(u_7)$$

$$(a^{(n+1)}, b^{(n+1)}) = (a^{(n)}, b^{(n)}) - 1 \nabla E(a^{(n)}, b^{(n)})$$