

Q1: 为什么要我稀度?

Q2: 英连引擎日梯度?

$$y = f_{W}(x)$$

$$\lim_{X \to \infty} \frac{1}{2} |f_{W}(x) - y||^{2}$$

$$\lim_{X \to \infty} \frac{1}{2} |f_{W}(x) - y||^{2}$$

E: 没系, 书得一组以使得 E最大(煳SGD)

随机初始化W,然后使用下面公式建筑更新W,使到fw(x) 更可能逼近 >:

$$W^{+} = W - \eta \cdot \frac{\partial E}{\partial W}$$

W, W2 W3 W4 真脏的为 1, 2, 3, 4

W+ W6 互通估别 OJ, 0.6

y 真实脏计等可得 4

模拟》:

の有機运筹:

计算加,加,加发表证:

hi= WIXI + WZXZ= 1.75

hr= w3 x1 + W4 X2= 3.8

y= wshi + w6 hz= J.oJ

 $E = \frac{1}{2}(y-t)^2 = 0.55175$

① 反须港播

JE JE JY JW = 1.05. h1 = 1.05. 1.25 = 1.3125

 $\frac{JE}{Jy} = \left[\frac{1}{2}(y-t)^{2}\right]^{2} = 2 \cdot \frac{1}{2}(y-t) \cdot -1 = 1.05$

 $WJ^{\dagger} = WJ - \left(\frac{\partial E}{\partial WJ} \right) = 0.1$

$$= | - 0.1 \times 1.3175$$

= 0.86875

$$\frac{\partial E}{\partial W_6} = \frac{\partial E}{\partial Y} = \frac{\partial Y}{\partial W_6} = 1.05 \cdot h_2 = 1.05 \times 3.8 = 3.99$$

$$W6^{+} = W6 - 1 - \frac{JE}{JW6}$$

$$= 1 - 0.1 \times 3.99$$

$$= 0.60$$

$$\frac{\partial E}{\partial w} = \frac{\partial E}{\partial y} \cdot \frac{\partial y}{\partial h_{1}} \cdot \frac{\partial h_{1}}{\partial w_{1}}$$

$$= 1.05 \cdot 1 \cdot | = 1.05$$

$$w_1 + = w_1 - \eta \cdot \frac{dE}{dw_1}$$

= 0.5 - 0.1 x 1.05
= 0.395

同格方法可以抗學:

 $w_2^{+} = 1.4475$ $w_3^{+} = 2.9475$

3 新坡运筹:

hi= Wit, x, + Wzt Xz= 1.11875

hz= W3+. X, + W4+. X4= 3,66875

y= Noth, + Woth 2= 3.1768

 $E = \frac{1}{2}(y-t)^2 = 0.3388$

边北渡荒北上一龙新烧溪荒

0.51115+