Oksignment -4

18K41A0588

Manual calculation

Step:2: iter=1

Step: 3: == 1 & (yi-mx;-c)2

 $\frac{\partial E}{\partial m} = -\frac{1}{n_s} \left(\frac{e^{n_s}}{e^{n_s}} \left(y_i - m x_i - c \right) \left(x_i \right) \right)$

 $=-\frac{1}{2}((3.4-(1)(0.2)+1)(0.2)+$

(3.8 - (1)(0.4)+1)(0.4) $= -\frac{1}{2} [(3.4 - 0.2 + 1)(0.2) + (3.8 - 0.4 + 1)$

(0.4)

=- 1/2 [(3.4.2)(0.2)+(4.4)(0.4)]

= -1 (0.84 +1.+6)

=-1.3

26 = -1 [= (y1-mx;-1)]=-1-1-1-2+4

step 4.3

step 5:
$$-m = -n dE = -(0.1) \times (-1.3) = 0.13$$
 $\Delta c = -n dE = -(0.1) \times (-4.3) = 0.43$
 $\Delta c = -n dE = -(0.1) \times (-4.3) = 0.43$

step 5: $-m = 1 + 0.13 = 1.13$
 $C = -1 + 0.43 = -0.5 \neq$

step 6: $-1 + 0.43 = -0.5 \neq$

step 8: $-1 + 0.43 = -0.5 \neq$
 $-1 + 0.43 = -0.5 \neq$

$$\Delta C = -\eta \frac{\partial E}{\partial c} = -(0.1) \times (-3.831)$$

$$= 6.3831$$

Step -to:
$$m=m+\Delta m = 1.13+0.24333$$

= 1.37333

$$C=C+DC=-0.57+0.3831$$

= -0.1869

mse =
$$[3.4 - (1.3 + 333 \times 6.2) + 0.1869]^2$$

+ $[3.8 - (1.3 + 333 \times 0.4) +$
 $0.1869)]^2$

= [10.97089]+[11.81687]

- 11.39388