Assignment - 5

$$\frac{2+\operatorname{cration-1}}{1=0.1, m=1, c=-1}$$

$$\frac{\partial E}{\partial m} = -\frac{1}{2} \left((ya_1 - mx_1 - c)^{\frac{1}{2}} x_1 \right)$$

X	14
75.1	577.8
74.3	577
F.38	570rg

+
$$((ya_2-mn_2-c)*n_2)+((ya_3-mn_3-c)*n_3)$$

= $\frac{-1}{2}$ $((577.8-(1)(75.0)+1)*75.1)+((597-(1)(74.3)+1)*74.3)+$
 $((570.9-(1)(88.7)+1)*\delta6.1)$

$$\frac{\partial F}{\partial c} = -\frac{1}{2} \left[(ya, -mx, -c) + (ya_2 - mx_2 - c) + (ya_3 - mx_3 - c) \right]$$

$$= -\frac{1}{2} \left[(503.7 + 503.7 + 483.2) \right]$$

$$= -745.3$$

$$\Delta m = -\eta. \frac{\partial E}{\partial m} = -(0.1)(-59056.31)$$

$$\Delta c = -\eta \frac{\partial E}{\partial c} = -(0.1)(-745.3) = 74.53$$

$$\frac{\partial \mathcal{E}}{\partial m} = \frac{-1}{2} \left[(15778 - (5906.63))(75.1) - 73.53) \times 75.1) \right.$$

$$+ ((577 - (5906.63))(74.3) - 73.53) \times 74.3) +$$

$$(570.9 - (5906.63))(86.7) - 73.53) \times 86.7$$

$$= \frac{-1}{2} \left[-1122 + 3065.835 \right]$$

$$= 50136542.926$$

$$+ (517 - (5906.63))(70.1) - 73.53$$

$$+ (517 - (5906.63))(744.3) - 73.53$$

$$+ (570.9 - (5906.63))(86.7) - 73.53$$

$$= \frac{-1}{2} \left[-1404863.731 \right]$$

$$= 70.2431.865$$

$$\Delta m = -(0.1)(56136542.928) = -5613654.293$$

$$\Delta c = -(0.1)(702431.865) = -70243.187$$

$$m = 5906.631 + (-5613654.293)$$

$$= -5607744.662$$

$$c = 73.53 - 70243.187$$

= -70169.65#

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