Assignment - 7 Sample X Y Batch gradient 2 0.4 3.8 descent 5-1: [xiy], m=1, c=-1, y=0.1, epocs = 2, ns=2 5-2;- tt=1 5-3:- DE = -1 & (y:-mx:-c).x: $= -\frac{1}{2} \left[(3.4 - (1)(0.2) + 1)0.2 + \right.$ (3.8-(1)(0.43)+1)0.4) = - 3.34 DE = -1 15 (4:-mmi-c) = -1/2[(3.4-0.2+1)+(3.8-0.43+1)] = - 4.3 - Dm = -4. 2E = (-0.1)(-1.34) = 0.134 DC = -1. 3E = (-0.1)(-4.3) = 0.43 m=m+0m= 1+0.134=1.134 C=C+DC=-1+0.43=-0.57 は= は十1=1+1=2 if (: a > epocs): 30 to 5-8 elsegots 5-3

$$\frac{5-3}{2m} = \frac{1}{2} \left(3.4 - (1.13)(6.2) + 0.59 \right) 0.2 + (3.8 - (1.13)(6.2) + 0.59) 0.2 + (3.8 - (1.13)(6.2) + 0.59) + (3.8 - (1.13)(6.2) + 0.59) + (3.8 - (1.13)(6.2) + 0.59) \right)$$

$$\frac{\partial \mathcal{E}}{\partial c} = \frac{1}{2} \left((3.4 - (1.13)(6.2) + 0.59) + (3.8 - (1.13)(6.14) + 0.59) \right)$$

$$\frac{\partial \mathcal{E}}{\partial c} = -3.82$$

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