Assignment - VII

18 K4140562

L> Do manual calculations for two itenations with first two samples.

calculations.

step 1;
$$[x, Y]$$
, $m = 1, e = 1, n = 0.1$, epoches = 2, $ns = 2$

Step 31-
$$\frac{\partial E}{\partial m} = -\frac{1}{n3} \sum_{i=1}^{n3} (y_i - mu_i - c) \pi_i$$

$$= -\frac{1}{2} \left[(3.4 - (0)(0.2) + 1) 0.2 + (3.8 - (1)(0.4) + 1) 0.4 \right]$$

$$= -1.34$$

$$\frac{\partial \mathcal{E}}{\partial r} = -\frac{1}{2} \left[(3.4 - 0)(0.2) + 1) + (3.8 - 0)(0.4) + 1) \right]$$

Step 4:
$$\Delta m = -\eta \frac{dE}{dm}$$

$$= -(0.1) (-1.34) = 0.134$$

$$\Delta C = -\eta \frac{3E}{3C}$$

$$= -(0.1) (-4.3) = 0.43$$
Step 5: $M = m + \Delta m = 1 + 0.134 = 1.134$

$$C = C + \Delta m = -1 + 0.43 = -0.52$$
Step 6: $\frac{1}{2} + \frac{1}{2} = \frac{1}{2}$

Steps! m=m+1m = 1.134 + 0.1187 2 1.2492 c = c+ dc = -0.57 + 0.3829 = -00187 step 61 iten + = 1 Step 71. if (iten > egoches) 43>2 else gobo skep 3 step 8: point (m, c) sada adop + (s.d) (680 + m=1.2497.1) - (8.8)) } = 36 18936 [(40) (100 + 6-3) -0.187 8.8) Fel.100