- ESSIGNMENT-13

Let us consider a sample détaset have one input (1740) and number of sample 4. Develop a simple linear regression model using +104GRAD optimizer.

Sample (1)	xi a	Yia
1	٥. ۵	3.4
2	о.ч	3.8
3	D · 6	لر، ع
4	0.8	4.6

Do manual calculations for two ikrations with first two samples.

step-6:
$$Dm = -\eta$$

$$\sqrt{6m+\epsilon}$$

$$= -(0.1)$$

$$\sqrt{0.7056+10.3} *-0.84$$

- 0.09

Skp4: gm = - (3.4-(1.17)6.2) + 0-84) 0.2 = -0 80 90 = - (3.4) - (1.17)(0.2)+0.84) = -4.0. steps: - 6/m = 3.59 + (-0.80) = 4.23 Ge = 35.89+(-4.0)= 51.89 Skp6 :- am = -0.1 - x - 0.80 = 0.038 DC = -0.1 x -4.0 = 0.05 step-7: m= m+am = 0.038+1.17 = 1.208 C = C+AC = -0.84 +0.05 = -0.79 skp 8: Sample : sample + 1 = 1+1 = 2 Skp9:- 9((sample>ns) goto skp-10 else goto skp-4. Step4: 9m = -(3.8-(1.20)(0.4)+0.74) * 0.4 = -1.64 9c = -(3.8- (1.20) (0.4) + 0.79) = -4.11 skp5: 6m = 4.23+(-1.64)2=6.9 Gc = 51.89 + (-4.11)2 = 68.7 Step 6: - DM = -0.1 × -1.64 = 0.06 J68-7 110-8 x -4.11 = 0.04 step 7: m = m + am = 1-208 +0.06 = 1.26 C = c+AC = -0.79 + 0.04 = -0.75 step 8: sample = sample + 1

- 2+1

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Step 9: 3 ((sample > ns)

8 > 2 goto step - 10

else
goto step - 4.

Step - 10: 1 + 1 = 1 + 1 |

= 2 + 1

= 3

Step - 11: - if (its > epoches)

3 > 2 goto step - 12

else
goto step - 3.

Step - 1a: - m = 1 · 26

C = -0 · 75