Assignment - 7:

let consider a sample dataset have one Input (2) & one output (4) and no. of samples a develop a cample linear regression model by using BGD.

sampleció	nia.	419	manual
	0:2	8.4	labulation.
2000	0.4	3.8	2-iteration
q	0.8		2-samples.

dep-1: 1/9, m=1; C==1, n=0, b, epochs=2, ns=2

Step-2: itel = 1 = 1+0 = 1+0 gruss = olgruss

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

= -1.34

DE = - 1 [(3.4-0.2+1) + (3.8-0.4+1)] (our)= -4.3 (1/100 C 12) 1) 11 1A. DM = - n DE = -0.1 x -1.34 = 0.134 DC = 1 85 00 (CONG) = VA = -0.1 x -4.3 = 0.43 S-5 m=m+ Am = 1+0.134 = 1.134 C= C+ AC = -11+0.43 =-0.57 SA i kliter > epochs) i 272 habo else step-3 J-3 9 DE = -1 [(2.4-(1.134) 6.2+0.57) 0.8 + (28-(1.134) 104) +0.57) 10.40) = -20157 3E = -1[(3.4-(1.134)10.2)+0.57) + (3.8- (1.134) (0.40 + 0.57) = -3.829 = 24 = dr Dm = -0.1 x -1.157 = 0.1157 DC = -0.1 x-3.829 = 0.3829 8-5: M= m+ Am = 1,134+9.1157 = 1,2492 C= C+ Am = -0.23 + 0.33 29 3 -0.187

Se: iter tenti = 2+1=3.8)

Nemt step

Nemt step

Sep Nemt st