THE WAR POT TO

* het vis consider a sample dataret have one input (xia) and come output (yia) and no of samples 2. Develop a sample linear regression model wing kms prop openinges.

	Later a Richard	
Sample (1)	1 xia	1 419
	0.2	3'4
) 2	0.4	3.8
3	10'6	4.2
C 425 6-1	108	4.6

Do manual calculations of 2 iterations

Step-4
$$gm = (3.4 - (1)(0.2) + 1)(0.2) = -0.54$$

 $gc = (3.4 - (1)(0.2) + 1) = -4.3$

$$\frac{\text{step-5}}{\text{c}} \quad \text{Em} = (0.9)(0) + (1-0.9)(-0.84)^2 = 0.07$$

$$\text{Ec} = (0.9)(0) + (1-6.9)(-4.2)^2$$

$$= (0.9)(0) + (1-6.9)(-4.2)^2$$

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(140-):m= m+om- Hors 1= (131 ... C-C+OC2-1-1031-059 step-e scemple - sample+1 =1+(=) Step-9 16 (sample sns) 2 potostepe 10 256 goto step-y Step4: 9m - 13.8-(1.31)(0-4) +0.60)0.4=17 9 c=(-138-(1.31)(0.4)+(0.69)=-3-9 Sep-5: cm=(0.9)(0.07)+(0.1)(-1.5)2=0.2+ Ec=(0-9)(176)+(0.1)(-3.9)=3.1 Step-6'. Dm=-0.1 \$ -1.5 = 0.28 DC = 60.1 10-8 9-9-9-0.22 Step7 m=m+om= 1.31+0.28=1.59 C= C+DC = -0.69+0.22-0.47 step & sample = sample + 1 step 9: ib (sample > n) goto step-10 step4

ity=1tx+1 Slep-10 il (it y epochos) g do step-12 Step-4 gm = -(3.4)-(1.59) (0-2)+0.47)(0-2)=-0.7 9(=(3:4-(+59)(0.2)+0.41)=-3.5 Step-5 Em= (09/(0-28) + (0.1)(0.7)2=0-3 Ec=(0.9)[3-17+(0.7)[-3.5)2=4.0 Step-6 DM = 0.1 9 (x-07 =012 10.3+10-8 DL= -0-1 4-3-5 =0.17 680= 17 Treotro-8 Am= m+0m = 159+012=1.71 C= 2+0C=0.47+0.17=0.3 Step- & sample = sample +1 = 1+11=2 - (10) Step-9 if [sample>ne) goto step-10 che goto step-4

step 5: 6m=(09)(0-3/0-)(-10)-046 EC=10-97 (4.0) + (01) 15-67-4.89 step-6 om=-01 +14=0.2 AC= -0.1 # - 3.6 = 6.10 Step-1 m=m+0m=1.71+0)=1.91 C=(+DC=-03+016=-014 Step-8 sample = sample +1 = 2+1 = 3 step9illsamples ns) 3>2 goto step-10 else goto step-4 Step10. 1'ty=ity+1 =2+1=3 step 11 if litr > epoches) 352 go to dep-12 goto step 3 e=0.14