Assignment -4 19 Kulnon
Simple linear Regression:
[Sample(i)] 1x; 0 4!
1 7.6 151
2/7.6 174
step-1: Read data set in=0.1 epoch=1
m=1, c=-1
step-2: Set iteration = 1
Step 4: 1/ = mn+c
1=(1)(7-6)=+=6.6
Step-5: ==1 (11,9 - mx,9 - c)2
E=====================================
= 11310.08
Step-6: 2E = - (49 -mx9; -c) x;9
1143.04
150, U
DE = - (1; -mx; a - c) =150, U.
70

Scanned with CamScanner

Skp-7: 
$$\Delta m = n \frac{1}{3\pi} = -(0.1)(-1143-04)$$

= 114.304

 $\Delta C = -n \frac{1}{3C} = -(0.1)(-150.4) = 15.04$ 

Skp.8:  $m = m + \Delta m = 1 + 114.304 = 1$ 

115.304

 $C = C + \Delta C = -1 + 15.04 = 14.04$ 

Skp-4:  $1/-(115.304)(7.1) + (14.04) = 1$ 

832.69

Step-5:  $F = \frac{1}{3}(174.832.69) = -216936.25$ 

Step-6:  $\frac{1}{3}F = -(174 - (115.304)(7.1) - 14.04)(7.1) = -(174 - 832.64)(7.1) = -(174.636.69)$ 
 $\frac{1}{3}F = -(174 - 832.69) = 658.64$ 

Step 7:  $12m = -n \frac{1}{3}F = -467.669$ 
 $\frac{1}{3}F = -(174 - 832.69) = 658.64$ 

Step 7:  $12m = -n \frac{1}{3}F = -467.669$ 
 $\frac{1}{3}F = -(174 - 832.69) = 658.64$ 

Step-8: m= 115.304 + (-467.669)=. -362-36 e'= 14.04+(-65.869)=-31.829 Step-9: Sample := i+1, 2+1=3. ic 13 · For mont stop Step-10: ter =: ++1=2. iter > epochs 7-> nent stop Step-17: Stop.

Scanned with CamScanner