Assignment-7

18KH1A0515 Let us consider a sample dataset have one input (xia) and one output (xia) and no. of sample 4. Develop a simple linear sugression model using Blip.

1	Sample (i)	x; ⁴ \	ÿi a
		0.2	3.4
* V	2	o. Y	3.8
	3	6.79	4-2
	4	(0,8(00)	(usi 1)-
		- N - 1/2	

· Do manual calculations for two iterations with

. White the paython coole to brild simple linear requires step 1: 1x, YJ = m=1, c=+, n=01, epolnes=2, ns=2

$$\frac{\partial m}{\partial m} = \frac{1}{2} \left[(3.4 - (1)(0.2) + 1)0.24 + (3.8 - 10.4 + 1) \right] = -10.3$$

$$\frac{\partial E}{\partial c} = +\frac{1}{2} \left[(3.4)(3 - 0.2 + 1) + (3.8 - 10.4 + 1) \right] = -10.3$$

Stepy:
$$\Delta m = -\frac{1}{2}\frac{\partial E}{\partial m} = -0.1 \times -1.3 \text{ y}$$

Step 5:
$$m + = \Delta m$$
 $1 + 013U = 1.13U$
 $1 + 013U = 0.1X$
 $1 + 013U = 0.1X$

Step 2: $3V + = 1$ $1+1=2$

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Step 3: $3V + = 1$ $1+1=2$

Step 4: $3V + = 1$ $1+1=2$

Step 5: $3V + = 1$ $1+1=2$

Step 6: $3V + = 1$ $1+1=2$

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