18K41A0502

(400) consider a sample dataset have one input (409) consider a sample de not of sample 4. Develop a simple traear regression model using

ADAGRAD optimez

optimizer.	-	
(sampleli)	Xia	Yea 5,10 bing
100.1	0.2	3.4 788.0=111
8	0.4	3.8 2000-1 =3
2	0.6	G02
6	0.8	4.6
1		A: 10

Do manual calculations for a sterations with first

S-1: {x,y}, epoches=2, m=1, c=-1, gm=0 Gc=0, n=0.1, two samples. €=10-8

S-2! 9tr =1

5-4. gm=-(3-4-(1)(0.2)+1)0.2=-0.84 gc=(304-(1)(002)+1)=-402

S-S; Gm=0+(-0.84)=0.4056, fc=0+(-4.2)=17.64

$$3-6$$
: $Dm = \frac{1}{\sqrt{6m+2}} qm = \frac{-(0.1)}{\sqrt{0.7056+10^{-3}}} + -0.84$

$$DC = \frac{-(0.1)}{||14.64+10^{-8}||} + \frac{-4.2}{||14.64+10^{-8}||} = 0.09$$

$$S = 1 \cdot m = m + \Delta m = 1+0.09 = 1.09$$

$$C = C + \Delta C = -1+0.09 = -0.91$$

$$C = C + \Delta C = -1+0.09 = -0.91$$

$$C = C \cdot \delta \cdot \text{ sample} = \text{sample} + 1$$

$$= 1+1$$

$$= 2$$

$$S = 9 \cdot \text{ f l sample} = \text{sample} + 1$$

$$= 2 \cdot \text{sample} = \text{sample} + 1$$

$$= 2 \cdot$$

$$S-f: m = m + \delta m = 1.09 + 0.08 = 1.17$$

$$C = C+ \delta C = 0.91 + 0.07 = -0.84$$

Sq: Pl (sample = ns) groto s-19 no otal C-10: 8tr=9tr+1 S-11. El libr > epoches) golo g-12

Che

Che S-4: gm=-(3.4-(1.17)(0.2)+0.84)0.2=-0.80 gc=-((3.4)-(1.17)(0.2)+0.84)=-4.0 $S-S: Gm=3.59+(-0.80)^2=4.23$ GC = 35.89 + (-4.0) = 51.89 Va. 23+ 108 DC = -0.1 # -4.0=0.05 S-F: m=m+ Dm = 0.038 + 1.17=1.208 0=C+DC=-0.84 +0.05=-0.79 S-8: Sample=Sample+1+11-200 +001=00+00=00+00=00 = 1+1=2 5-90 et (sampleons) exoto 5-10 else gato s-4