Assignment-9. Let us consider a sample data set har ilp (xi) & olp (yi) & noiof samples 4. Develop a simple linear regression model using momentum optimizer sample (1) > Do manual calculations for 2 iterations 1st 2 samples. step1: [x,y], m=1, c=1, n=0,1, epcohs=2, 7=0.9, Vm=VL=0, 25=2 step2: iter=(1) (1). step3: sample=1 step 4: 2m = 2E = - (4:-mx;-c)xi (34-(1)(02)+1)02 ge=dE=- (y:-mni-c) (3.4-1

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$$V_{c} = V_{c} - \eta g = \frac{(0.7)(-0.42) - [(-0.1)(-4.85)]}{(-0.85)} = \frac{(0.7)(-0.42) - [(-0.1)(-4.85)]}{(-0.86)} = \frac{(-0.86)(-0.264) - (0.86)}{(-0.86)} = \frac{(-0.86)(-0.264) - (0.86)}{(-0.86)} = \frac{(-0.86)(-0.264) - (0.86)}{(-0.86)} = \frac{(-0.86)(-0.264)}{(-0.86)} = \frac{(-0.86)(-0.264)}{(-0.264)} = \frac{(-0.86)(-0.264)}{(-0.264)} = \frac{(-0.86)(-0.264)}{(-0.264)} = \frac{(-0.86)(-0.264)}{(-0.264)} = \frac{(-0.264)(-0.264)}{(-0.264)} = \frac{(-0.264)(-0.264)(-0.264)}{(-0.264)} = \frac{(-0.264)(-0.264)(-0.264)}{(-0.264)} = \frac{(-0.264)(-0.264)(-0.264)}{(-0.264)} = \frac{(-0.264)(-0.264)(-0.264)}{(-0.264)(-0.264)} = \frac{(-0.264)(-0.264)(-0.264)}{(-0.264)(-0.264)}$$

$$V_{c} = V_{c} - N_{f} c$$
 $= (0.9)(-0.83) - (0.1)(-5.83)$
 $= -1.332$
 $c = c + V_{c} = -2.26 - 1.33 = -3.618$
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 $c = c + V_{c} = -3.618 - 1.928 = -3.54$
 $c = c + V_{c} = -3.618 - 1.928 = -3.54$

step 7: sample = sample +1 = 2+153 a Para in a steps: if (sample >05) 372 goto step 9 False go to step 4. slep9: iter=iter;t1 step10: it liter > epcohs)
True go to sty! else joto steg3. step11: print m & cyalues m=-0-316, C=-5.54 itm [Par] . male

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