Assignment + Let us consider a sample dataset have one input (Xia) \$ one of (Yia) & numbrot samples 4. Develop a simple linear regression model using BGD Sample (i) X; 9 Y; 0 1 0-2 3.4 04 3.8 Do manual calculations for a strations with first 2 samples. Step1: [x, Y], m=1 (C= 7 11 = 0:1) e pub (= 2, 1) s=2 Step2: Iter=1 slep3: 2= -1 2s (y,-mai-C) xi = -1 [(34)-(1)60,2)1+1)0.2+ (38-(1)6.4)+1)047 DE == [(3.4-0.2+1)+(3.8-0.4+1)

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step 4:
$$\Delta M = -\eta \frac{\partial E}{\partial M}$$
 $= -0.1(-1.34) = 0.134$
 $\Delta C = -\eta \frac{\partial E}{\partial Z}$
 $= -0.1(-4.3) = 0.43$
 $step 5: M = M + \Delta M = 1 + 0.134 = 1.134$
 $C = C + \Delta C = -0.1 \times -4.3 = 0.43$
 $step 6: 1 + 4 = 1 + 1 = 2$
 $step 7: 1 + (1 + 4 > 2 + 4 + 4) = 1 + 1 = 2$
 $step 3: $\partial E = -1 = (3.4) - (1.134)(0.2) + 0.57)(0.2)$
 $d = -1.15 + 2$
 $d = -1 = [(3.4 - (1.134)(0.2) + 0.57)]$
 $d = -1.15 + 2$
 $d = -1 = [(3.4 - (1.134)(0.2) + 0.57)]$
 $d = -3.629$
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 $d = -0.1(-1.15) = 0.1191$
 $d = -3.629$
 $d = -0.1(-1.15) = 0.1191$
 $d = -3.629$
 $d = -0.1(-3.82) = 0.38$
 $d = -0.1(-3.82) = 0.38$$

step 7: if (Her sepushs): True go to step 8 3,72000-)100 else go to step 3 step 8: m=1.249, c=-0.18 Ferring part - marini - m was en king and Alamina for the contradiction spike it liter repeated (2 to govern) to 6925 (coll- of (collows) - (collows) - (collows) Profeson (voly vol) + sell + sell + in a contract of the state of the state of 1.10 m. (1 0) (4 m. 1) 3.13 1. Stephen : (-11) that I want in the differ