Assignment 7:

manual calculations

Batch Gradient Descent

step 1: Read Dalaset (x, y), epochs=2

mal, cal, year 1822

Stepz: iter= 1

step 3 % = -1 = 500 = 500 - 1000 - C)2

=-103

Step 50 m= 1+0013=113

Step 6: iter = iter+ 1= 1+1=2

step 70 if 222 = talse

Go to step 3

$$= -\frac{1}{2} \left[(3 - 4 - (1.13 \times 0.05) + 6 - 5.3) \times 0.05) + (3.8 - (1.13 \times 0.04)) + (3.8 - (1.13 \times 0.0$$

estep 4: Dm = - N 36 7 - (0.1)+ (-2.4833), 0.0 24333 DC = - N 3E = - (00) x (-8.831) = 0.8881 step 5: m=m+Am = 123+0.24333=1.37333 C = C+1x = -0.57+0.363=-601869 step 6 % (ter + 1= 2+1=3) step 7: if iter> epoch = 322 = 90 to step & step 80 point (m, c) = (1.37333, -0.1869) stop of mse of obta mse = [3-4-(1-3+333x02)+0-1860] = [3-8-(1-373x0-1)] 0-1869] = 11.3888 pm () (= 11.3888 pm ()] 1 . -

81-0 (8-1) (1-1) -- mil 1 - mc : + mil

(1994(201) (0 m) - 3/2) (1 m)

Little Commercial States and the

(20 81 for 1 200 for 1 60 mm - 10 8.1

E170 SE MON SUS 9 45

final had to out to yoke