Linear Regression From Scratch , (using Bython) Estimation => g= wx+b Mean Square every MSE = J(w,b) = 1 = (y; -(wx; +b) $J'(m.b) = \begin{bmatrix} dA/d\omega \\ dP/db \end{bmatrix} = \begin{bmatrix} M \leq -2xi (yi - (\omega xi + b)) \\ M \leq -2(yi - (\omega xi + b)) \end{bmatrix}$ Gradient Descent - Initialize weight us zue - Inchalike blass on -> Breaket result using y=wx+3 b=b-a.db - Calculate over - Use gradient descent to figure out new everyht & brown -> Repeat of times -> lest using g=wxts

updating Paramters

$$d\omega = \frac{dJ}{d\omega} = \frac{1}{N} \frac{2}{1-2} \times \frac{1}{2} (y_1 - (\omega x_1 + b)) = \frac{1}{N} \frac{2}{1-2} - 2 \times \frac{1}{2} (y_1 - y_1)$$
 $\frac{1}{N} \frac{2}{1-1} = \frac{1}{N} \frac{2}{1-1} \times \frac{1}{1-1} \times \frac{1}{N} \frac{2}{1-1} \times \frac{1}{N} \frac{2}{1-1} \times \frac{1}{N} \frac{2}{1-1}$

Doing it efficiently i-e. all calculation for all data tonit