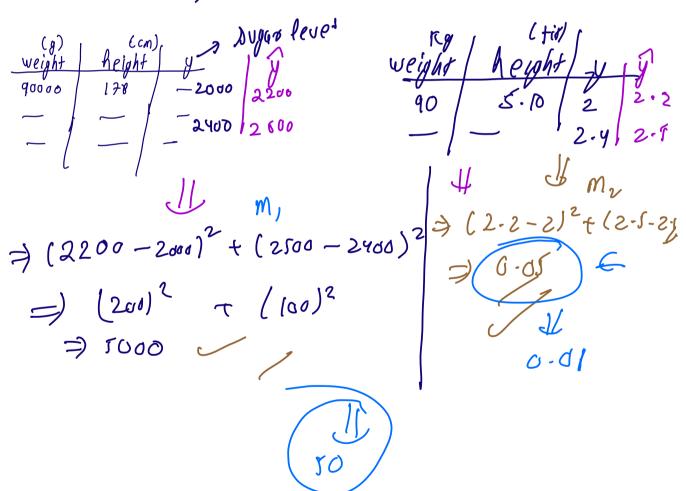
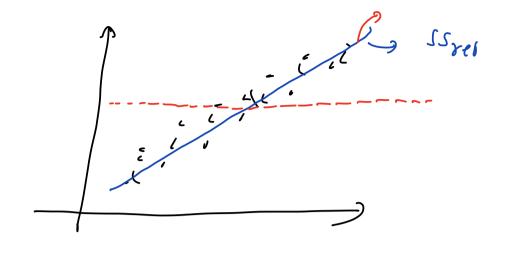


sum of square (crooss)

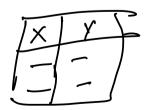




$$(31-30)^2$$

$$\begin{array}{l} \text{Num} \rightarrow SSres = \mathcal{E}(y - \hat{y})^2 \\ \Rightarrow np \cdot sum \left( (y - y - hqt) - x - 2 \right) \end{array}$$

&Klean



slope & into

model = Linear Regression ()

Hit ()
gradient descent

model. fit (x, y)

 $a \ni (3, )$   $a \cdot seshape (a \cdot size, 1)$   $a \Rightarrow (3, 1)$ 

model-predict (X)

Wo W, model > car

model. intercept\_ model. coet\_

model - score (x, x)

L

R<sup>2</sup>

$$\frac{\partial \mathcal{L}}{\partial w_{l}} = -2 \left( y - \hat{y} \right) x$$

$$\frac{\partial \mathcal{L}}{\partial w_{0}} = -2 \left( y - \hat{y} \right)$$

(old) => 6 radient descent code => H/W 1 gdown Problem with R2 >/ 1 Bo.  $X_i \int X_i / X_j$  $X_1 \mid X_2 \mid X_3 \mid X_4$ R° ≥ 0.80 1.70

Adjusted  $R^2$   $= 1 - \left[ \left( 1 - R^2 \right) \frac{(m-1)}{(m-d-1)} \right]$   $= 1 + \left[ \left( 1 - R^2 \right) \frac{(m-1)}{(m-d-1)} \right]$   $= 1 + \left[ \left( 1 - R^2 \right) \frac{(m-1)}{(m-d-1)} \right]$ 

 $y = w_0 + w_1 x_1 + w_2 x_2 + \cdots + w_d x_d$   $\hat{y} = w_0 + w_1 x_1 + 2x_2 + \frac{w_2 x_3}{2} - + w_d x_d$   $w_3 = -v_0$   $w_4 = -v_0$ 

 $\hat{y} = w_0 + 2a, \quad t \log_2 + --- \quad t w_0 a_0$   $w_i \Rightarrow o \cdot ooy$ 

y = wa + --- - + (-100,000) age +---
(-10) adometer

(0,0) 5 Cyles

J. Data  $\rightarrow$  Standardize

Build Model  $\hat{y}_1 = w_0 + - + (-2) \text{ age } + - - - \\
(-1.6) \text{ odoma po}$ 

R° = 1\_ SS res SS mean

1- 800

80 B