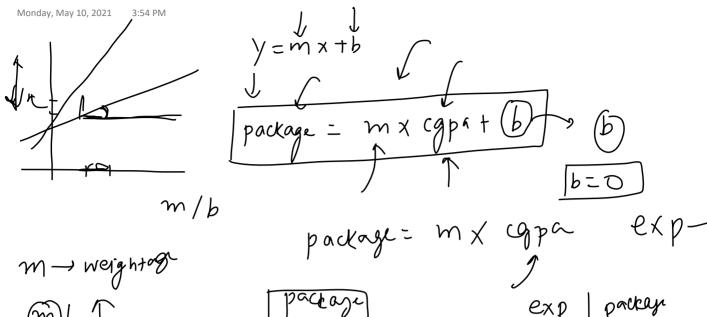


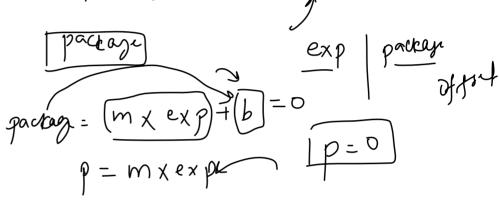
Code Example

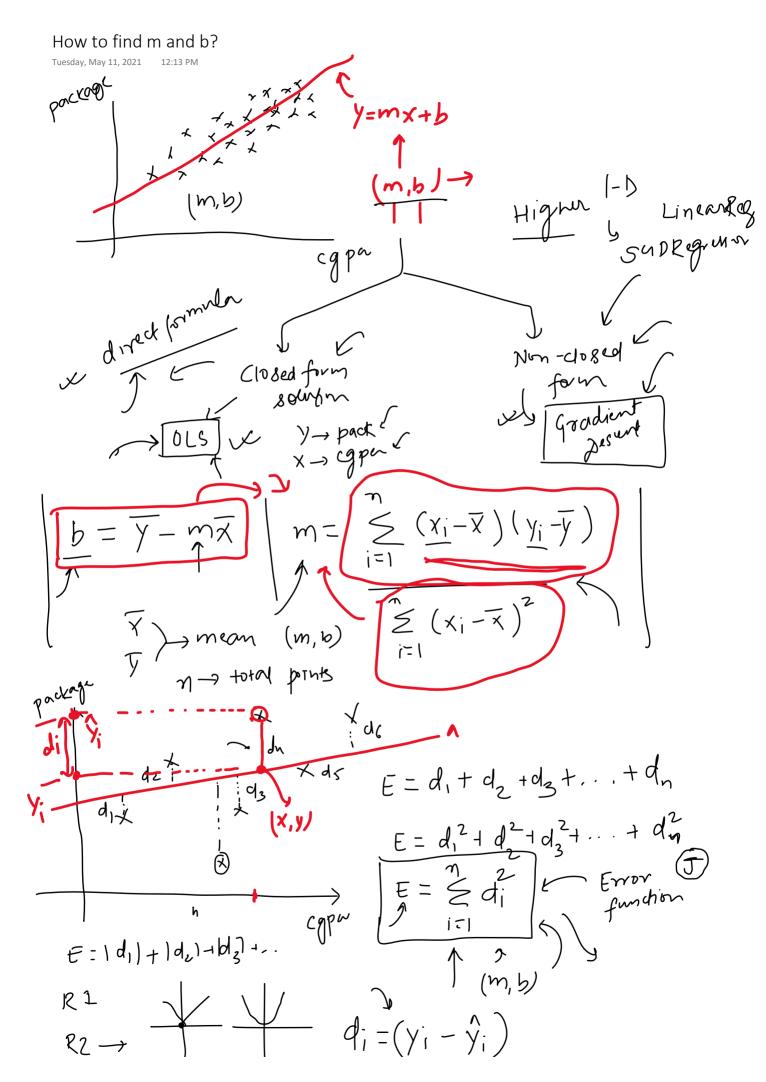
Monday, May 10, 2021 3:54 PM

Intuition



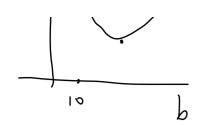
m - weight of

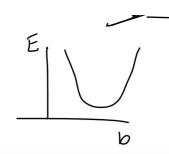


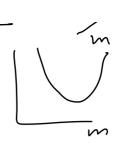


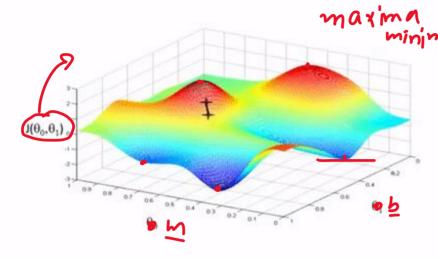
$$E = \underbrace{\sum_{i=1}^{n} (y_i - \hat{y}_i)^2}_{(m,b)} \underbrace{\sum_{i=1}^{n} (y_i - \hat{y}_i)^2}_{(m,b)}$$

Day 48 - Simple Linear regression Page 6









$$\frac{dE}{dx} = 0$$

$$f(y,y)$$

$$\frac{\partial E}{\partial E} = 0, \frac{\partial E}{\partial E} = 0$$

$$\frac{\partial E}{\partial b} = \frac{\partial}{\partial b} \sum_{i=1}^{N} (y_i - mx_i - b)^2 = 0$$

$$= \underbrace{\frac{\partial}{\partial b}} (y_i - mx_i - b)^2 = 0$$

$$= \underbrace{\frac{\partial}{\partial b}} (y_i - mx_i - b)^2 = 0$$

$$= \underbrace{\frac{\partial}{\partial b}} (y_i - mx_i - b)^2 = 0$$

$$\supset \leq -2(y_i - mx_i - b) = 0$$

$$\Rightarrow \leq (y_i - mx_i - b) = 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$= 0$$

$$\frac{1}{y} - mx - \frac{hb}{x} = 0$$

$$\frac{1}{y} - mx = b$$

$$\overline{y} - m\overline{x} = b$$

$$E = \left\{ \frac{3m}{3m} \left(\frac{\lambda^{1} - mx^{1} - \lambda^{2} + mx}{3} \right)^{2} = 0 \right\}$$

$$\Rightarrow 22\left(y_{1}-mx_{1}-\overline{y}+m\overline{x}\right)\left(-x_{1}+\overline{x}\right)=0$$

$$= \underbrace{\sum -2 \left(y_{1} - mx_{1} - \overline{y} + m\overline{x} \right) \left(x_{1} - \overline{x} \right) = 0}$$

$$= \underbrace{\sum \left(y_{1} - mx_{1} - \overline{y} + m\overline{x} \right) \left(x_{1} - \overline{x} \right) = 0}$$

$$= \underbrace{\sum \left(y_{1} - \overline{y} \right) - m \left(x_{1} - \overline{x} \right) \left(x_{1} - \overline{x} \right) = 0}$$

$$= \underbrace{\sum \left(y_{1} - \overline{y} \right) \left(x_{1} - \overline{x} \right) - m \left(x_{1} - \overline{x} \right)^{2}}_{i=1} = 0$$

$$= \underbrace{\sum \left(y_{1} - \overline{y} \right) \left(x_{1} - \overline{x} \right) - m \left(x_{1} - \overline{x} \right)^{2}}_{i=1} = 0$$

$$= \underbrace{\sum \left(y_{1} - \overline{y} \right) \left(x_{1} - \overline{x} \right) - m \left(x_{1} - \overline{x} \right)^{2}}_{i=1} = 0$$

Code from scratch

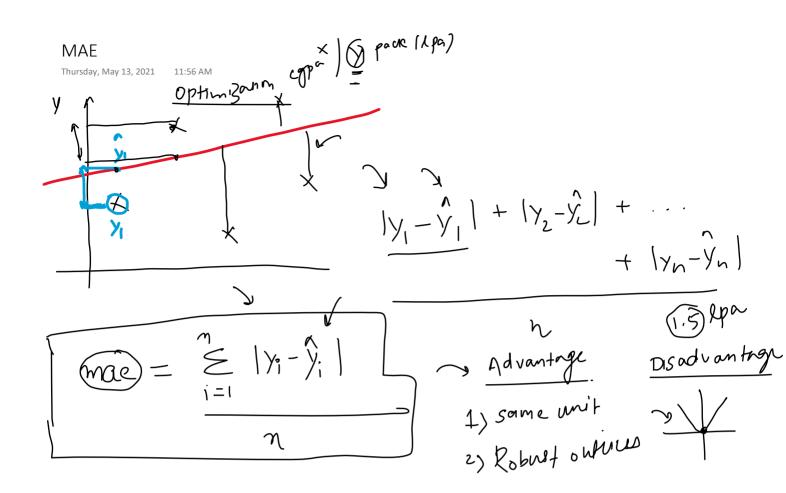
Tuesday, May 11, 2021 12

Regression Metrics

Thursday, May 13, 2021

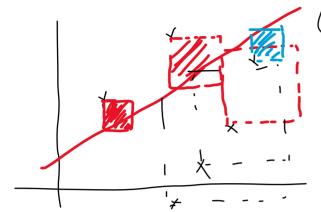
11:56 AM

- 1) MAE
- Z> MSE
- 3) RMSE
- 4) RZ Score
- 5) Adjusted RZSme



Thursday, May 13, 2021

mean squared ever of 1 / part



(11.25)

