

will start at 9:05 PM



selling-price | make | year | f_1 | f_2 | f_3 | f_4

$$y = f(x) \\ \Downarrow \\ x_1 + 2x_2$$

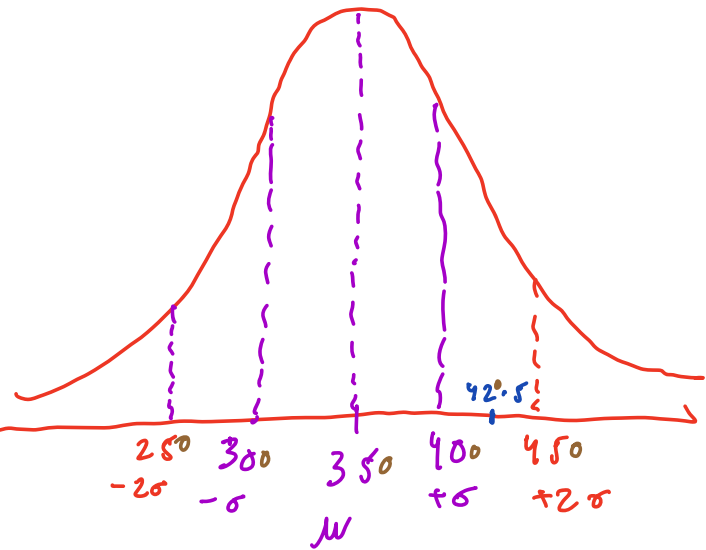
① z-score

② Min-max scaler

\Rightarrow sd

45 marks = 2σ

$$\frac{45 - 35}{5} = \frac{10}{5} = 2$$



$$\frac{42.5 - 35}{5} = \frac{7.5}{5} = 1.5$$

$$\sigma = 5$$

\Downarrow

Z-score

$$\frac{x - \mu}{\sigma} = z$$

class A:

var

def fun1():

a = A()

a.fun1()

sk learn

Model = Linear Regression()

model.fit(x, y)

y Price	x_1 cm height	x_2 fit width
—	50000	2
—	60000	3
—		5

$$m_1 x_1 + m_2 x_2 + c = y$$

shivank.agrawal - 1 @ scaler.com

Feb Beg

Error \Rightarrow

$$\Rightarrow \sum (y_i - \hat{y}_i)^2$$

m_1

m_2 !
...

Ex 808

Ex 800

x_1	y	\hat{y}	
5	4	4	$\Rightarrow 0$
6	5	5	$\Rightarrow 0$
9	7	8	$\Rightarrow 1$
			$\Rightarrow 1$

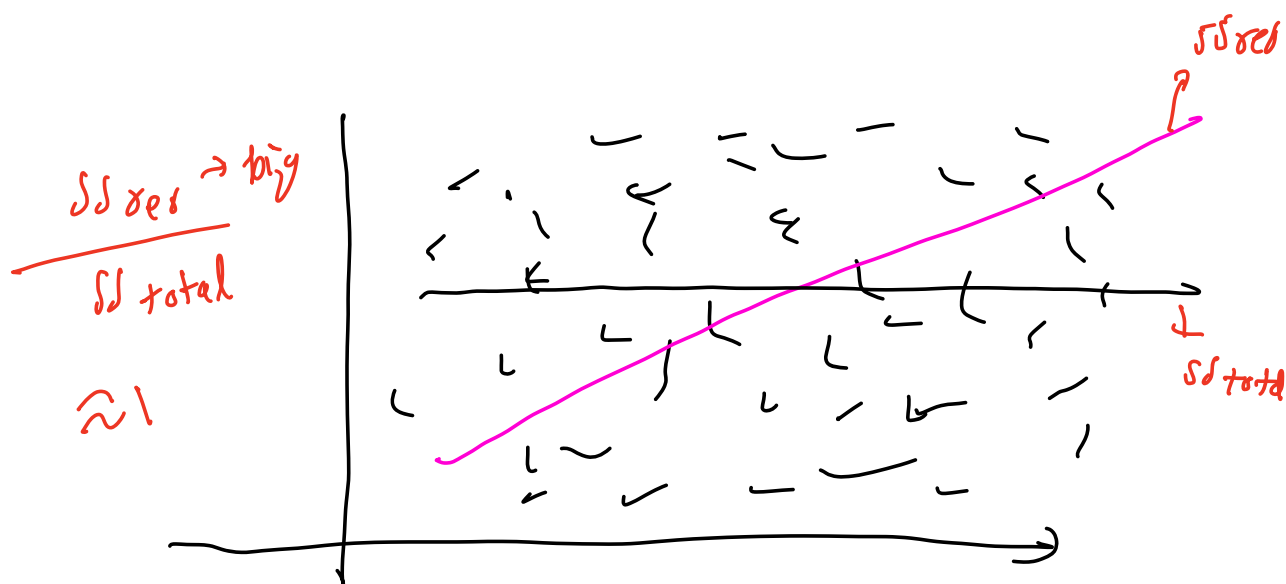
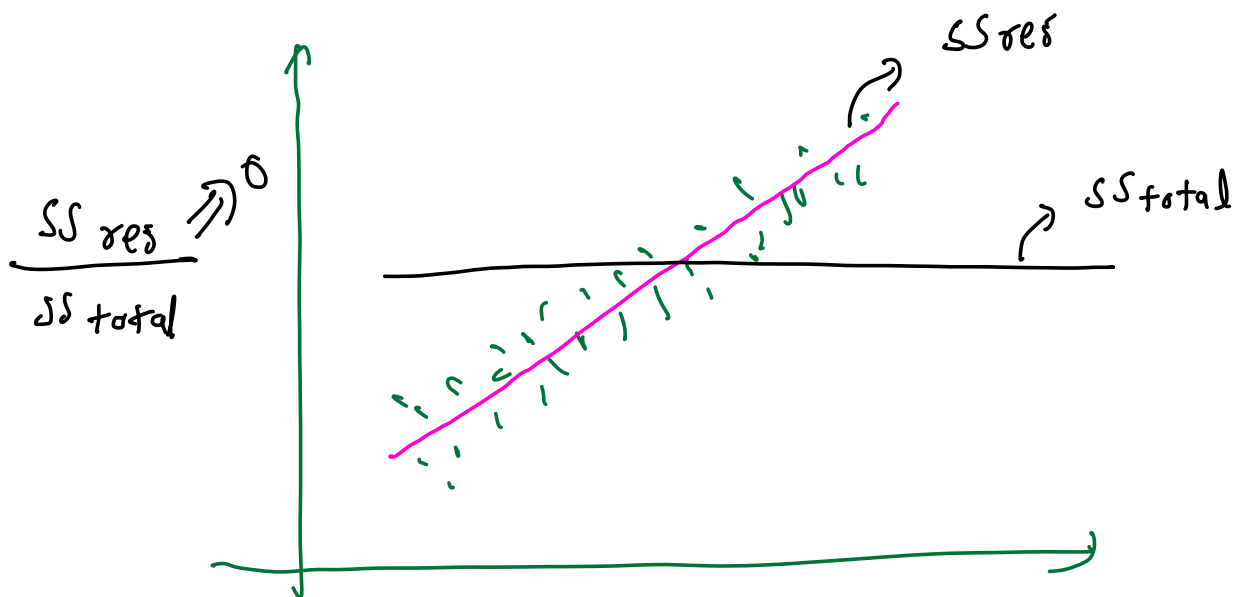
$\hat{y} = x - 1 \Rightarrow m_1$

x_1	y	\hat{y}	
500	400	400	$\Rightarrow 0$
600	500	500	$\Rightarrow 0$
900	700	800	$\Rightarrow 100$

$\Rightarrow (100)^2 \Rightarrow 10^4$

$$\hat{y} = x - 100 \Rightarrow m_2$$

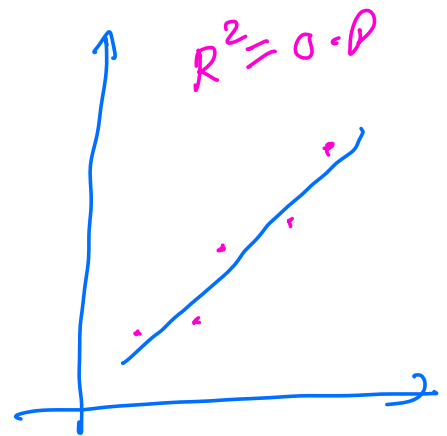
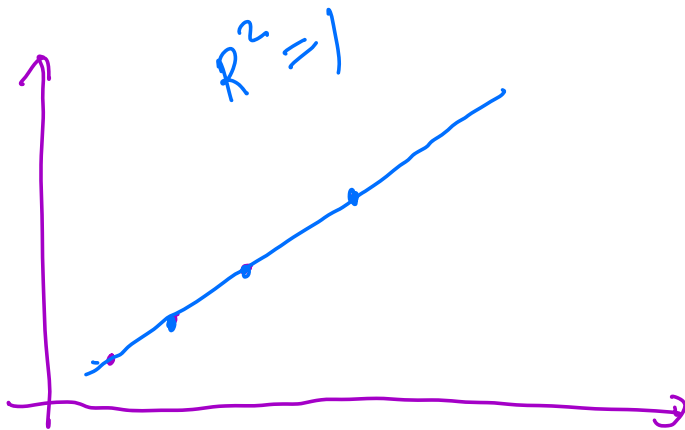
R^2 (coeff of Determination)



$$R^2 = 1 - \frac{SS_{res}}{SS_{total}}$$

$$= 1 - \frac{\sum_{i=1}^n (y_i - \hat{y}_i)^2}{\sum_{i=1}^n (y_i - \bar{y})^2}$$

$$\sum_{i=1}^n (y_i - \hat{y}_i)^2$$



Model - score (x, y)

