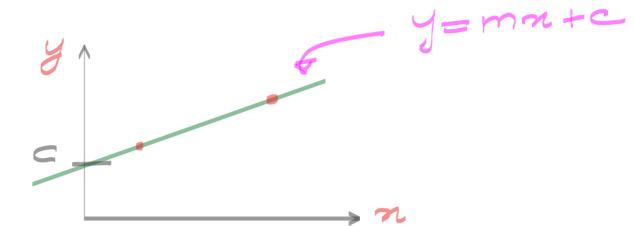
07 December 2022

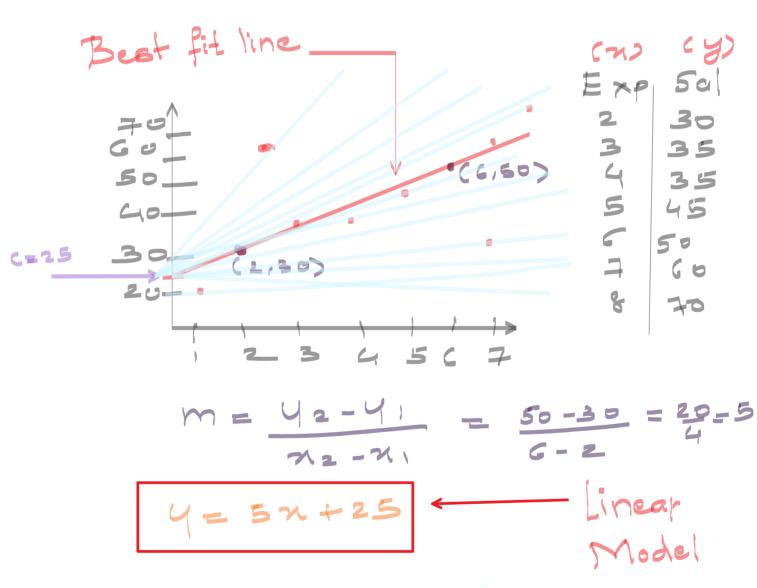
20.35

$$y = mx + c$$
 $y = a + bn$ 
 $y = 0; + 130_2$ 



$$99 - 2, y = 13$$
  
 $100 - 2, y = 28$ 

1. 5imple LR



\* Blue lines — infinite number of possibilities Linear Regression 08 December 2022 07:31 SP Scale Variant MSE Temp. R-squared - R2 - Scale Invariant O tol R= 1 - 55E

$$R = 1 - 55E$$

$$55T$$

$$= 1 - 0$$

$$55T$$

$$2 \cdot R^2 = 0$$

$$R^2 = 1$$

CAE- ART

2. 
$$R^2 = 0$$

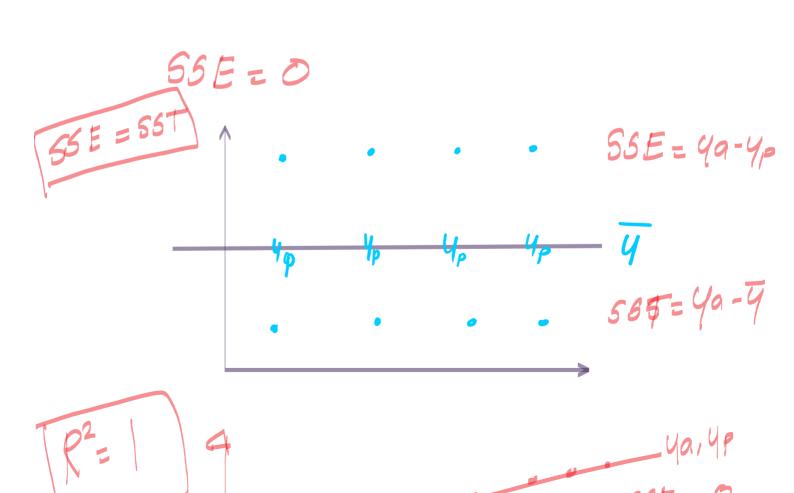
$$R^2 = 1 - 0 \qquad , SSE = SST$$

$$= 1$$

Non-linear.

$$R^{2} = 1 - \underbrace{55E}_{55t} \longrightarrow \underbrace{(4a-4p)^{2}}_{55t}$$

$$Exp$$
,  $Sa$ ,  $30$ ,  $40$ ,  $9a$ ,  $9=50$ ,  $50$ ,  $50$ ,  $4$ 



66E=0 R-59 uared  $R^2 = R \times R$ R2 + RXR -( 12-Score) R2 — o Goudness of Best fit line M, N2 N3 N4 N5 Y 0.9 (0-4)=0.8 (0.7) -0.5 3 feafures - 12 R = 0.85 7 0.852 (M1, M3, M4) 4 features - P R^2 = 0.86

Adjusted R-squared -> R<sup>2</sup>

$$R^{2} = 1 - \frac{(1-R^{2})(n-1)}{n-P-1}$$

$$N = No \quad of \quad samples \quad (fows)$$

$$R^{2} = \frac{1}{R^{2}}$$

$$R^{3} = \frac{1}{R^{2}}$$

$$R^{4} = \frac{1}{R^{2}}$$

$$R^{2} = \frac{1}{R^{2}}$$

$$R^{2} = \frac{1}{R^{2}}$$

$$R^{3} = \frac{1}{R^{2}}$$

$$R^{4} = \frac{1}{R^{2}}$$

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$$R^{3} = \frac{1}{R^{2}}$$

$$R^{4} = \frac{1}{R^{2}}$$

$$R^{5} = \frac$$

$$R^{2} = 1 - (1-R^{2}) (n-1) + 999$$

$$R = 1 - (1-R^{2}) (n-1) + 994$$

$$\begin{array}{c}
N = 1000 \\
N > P
\end{array}$$

$$\begin{array}{c}
S rows \\
6 columns
\end{array}$$

50rows Of -0 1/1 1/2 1/3 1/4 beties -Test A Test Train test y-fest y-train M\_train 120 rows 30 rows 20 rows

Tr 15 A M-train, 2, 4, 5 3 ruw 5 4-train, 2, 4,5 - Train 2 row\_n\_test 1,3 - Test 10 4- test 103 shuffle = True 30 WWS 80 40 - Train loo row -n Test \* What is Dafa science. + 3 correct 75 % Train 4 lines (incorrect 25% evaluate \* what is KNN?

L- 4 line - 2 corred 50% 4 line .... 2200

Test- 4 line 75 corred 50%

Evaluate

unseen

Area Beel Bouth Location Price
Train \( \begin{array}{lcc} 1000 & 3 & 2 & Baner & 2cr \\ 700 & 2 & 1 & wakad & 80 \\ 800 & 1 & 1 & Bale & 75 \end{array}\)

Test 650 & 2 & 2 & Baner & 901

U=M&t C 45B 2 45B Exp