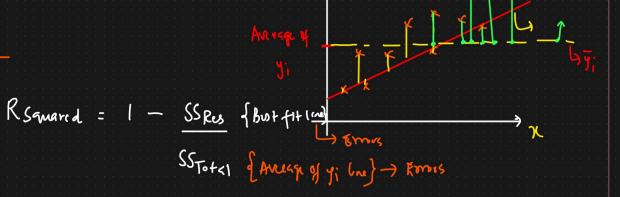
Performance Metrico Usra In Lincar Regression

1) R squared

1 Adjusted R Squared

1) R Squared

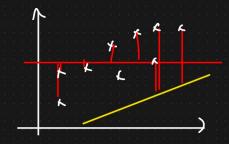


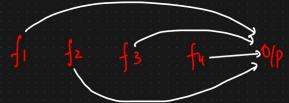
SSRus = Sum of Squares Reviduel or Errors

SS Total = Sum of Squawd Total

Requare
$$=1-\frac{2(y_i-\hat{y_i})^2}{2(y_i-\hat{y_i})^2}$$
 Small value $\frac{2(y_i-\hat{y_i})^2}{2(y_i-\hat{y_i})^2}$ Big Value

" R Squand can be -ve





Max Rssucred = 1

R Squand MM

R squared => 0.71 => 75%

=) 0.85 =) 85%

{Overfithing Problem}.

(2) Adjusted R squared

(ender Size of the house No. of bedrooms forth Price

R squared = 85%

Regnered = 90%.

Regnard = 91%

Adjusted R squared = (- (1-R2) (N-1) N-p-1

N=No. of data points

P = No. of Independent features

R2 = 80% N=11 P=2

Adjusted R S quand = 1 - (0.2) (10) = 1-21 (1 - 2-1 = 1-14 = 3/4 = 0.75

R² =80% Odjusta R² = 75%

P=3 R2 = 85% Adjusted RZ = 78%

> Adjusted $R^2 = 76\%$ R2= 8e%.

Independent is not