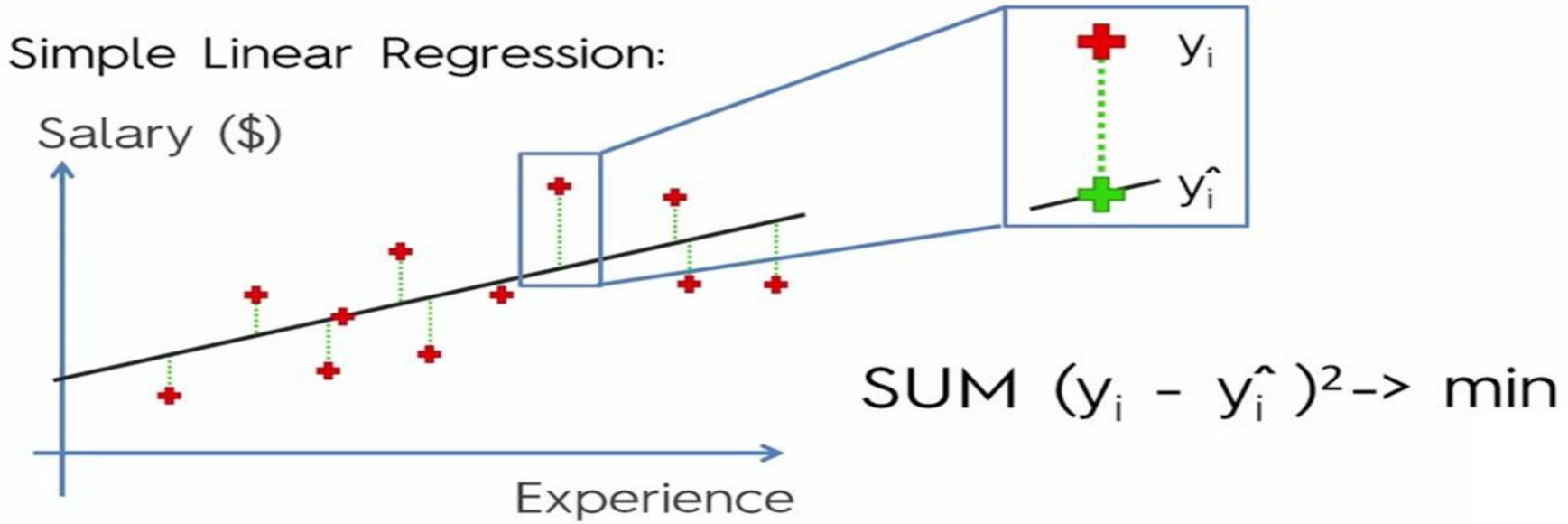
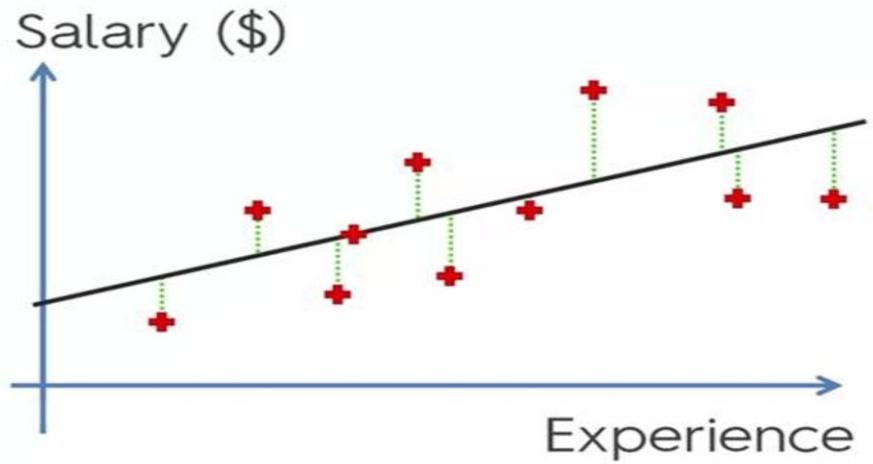
R SQUARE

R Squared


Simple Linear Regression:
Salary ($)
Experience
y_i
$\hat{y_i}$
SUM $(y_i - \hat{y_i})^2$ -> min

R Squared

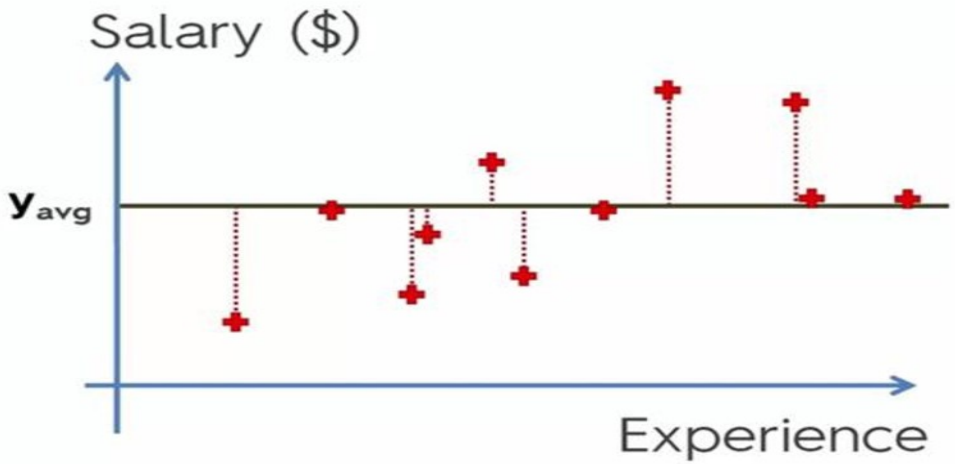
Simple Linear Regression:



$$SS_{res} = SUM\ (y_i - \hat{y_i})^2$$

R Squared

Simple Linear Regression:

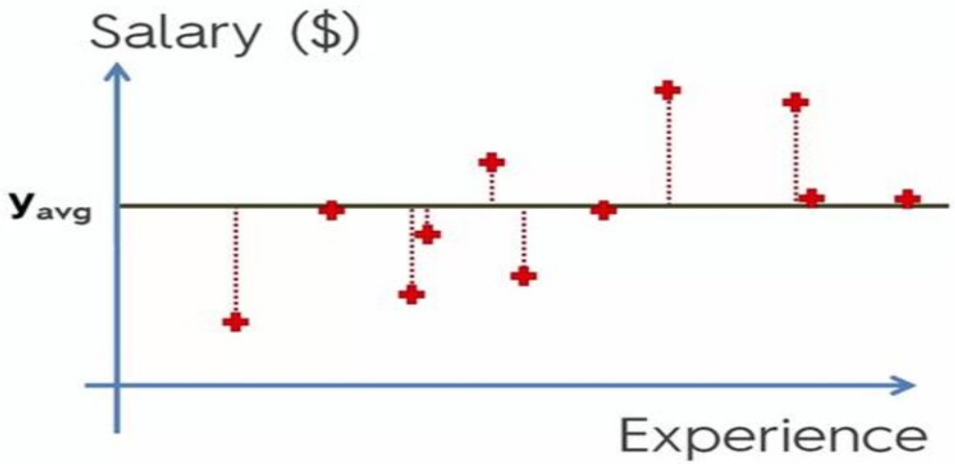


$$SS_{res} = SUM\ (y_i - \hat{y_i})^2$$

$$SS_{tot} = SUM\ (y_i - y_{avg})^2$$

R Squared

Simple Linear Regression:



$$SS_{res} = SUM\ (y_i - \hat{y_i})^2$$

$$SS_{tot} = SUM\ (y_i - y_{avg})^2$$

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