Regressions

Simple Linear Regression

$$y = b_0 + b_1 * x_1$$

Regressions

Simple Linear Regression

$$y = b_0 + b_1 * x_1$$

Dependent variable (DV)

Regressions

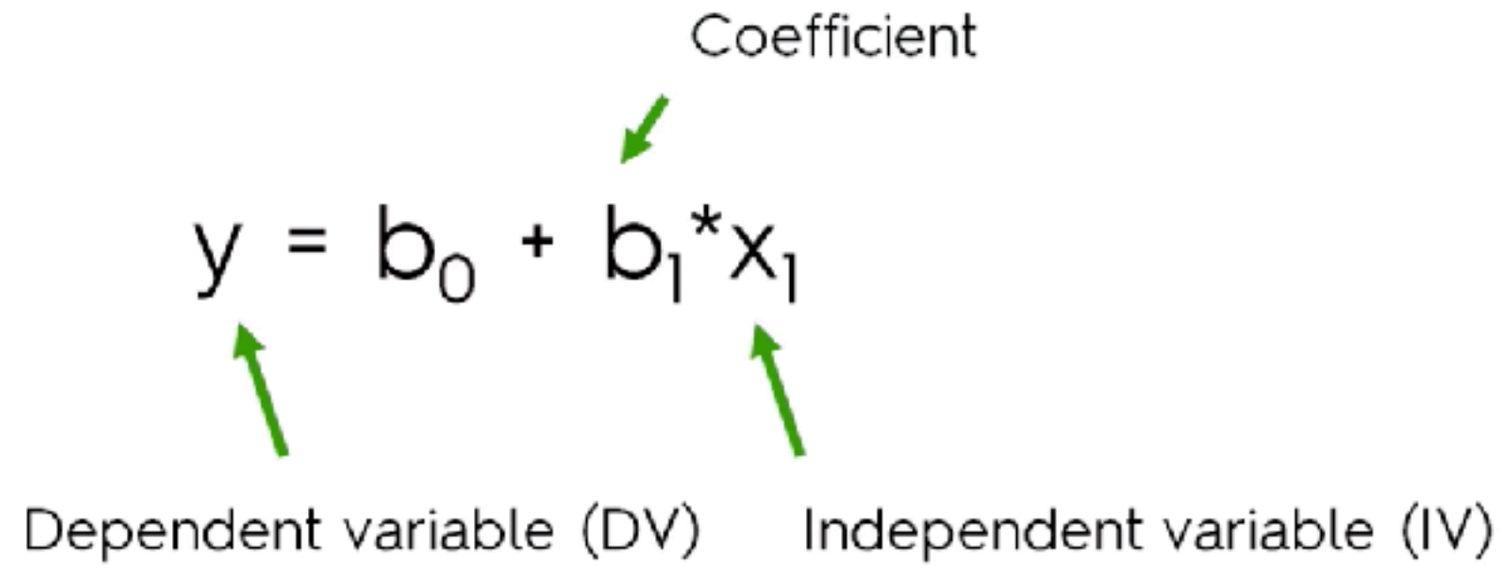
Simple Linear Regression

$$y = b_0 + b_1 * x_1$$

Dependent variable (DV) Independent variable (IV)

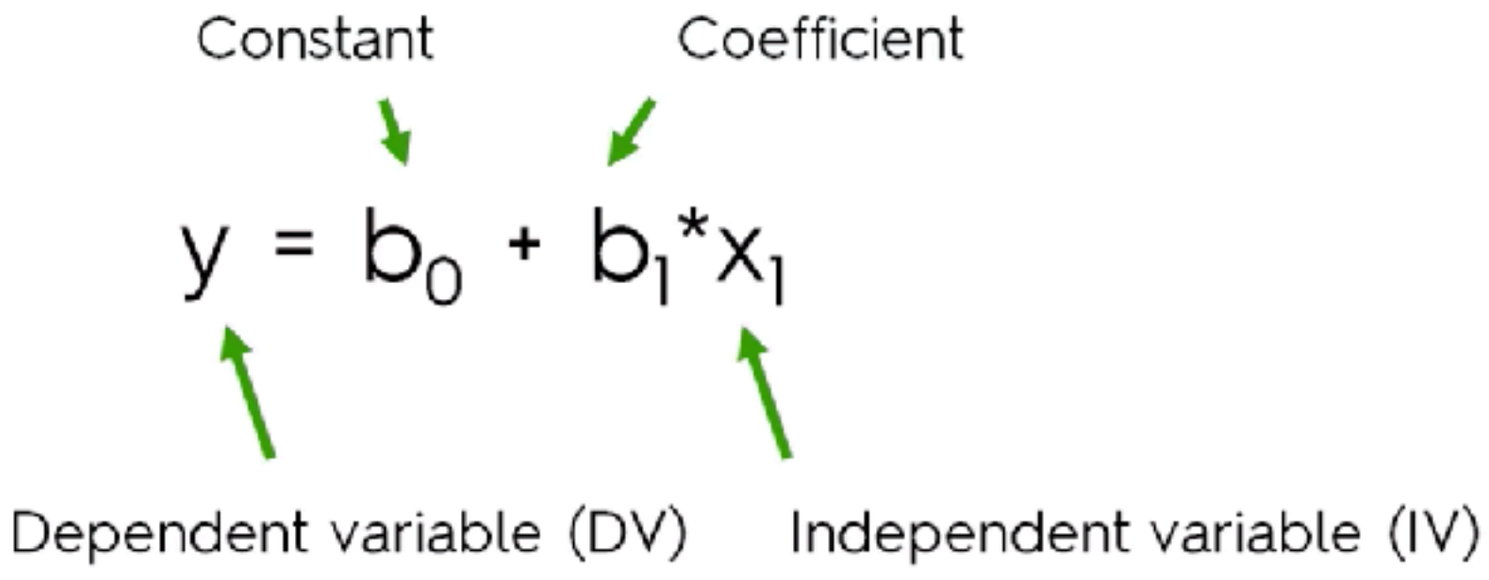
Regressions

Simple Linear Regression



Regressions

Simple Linear Regression

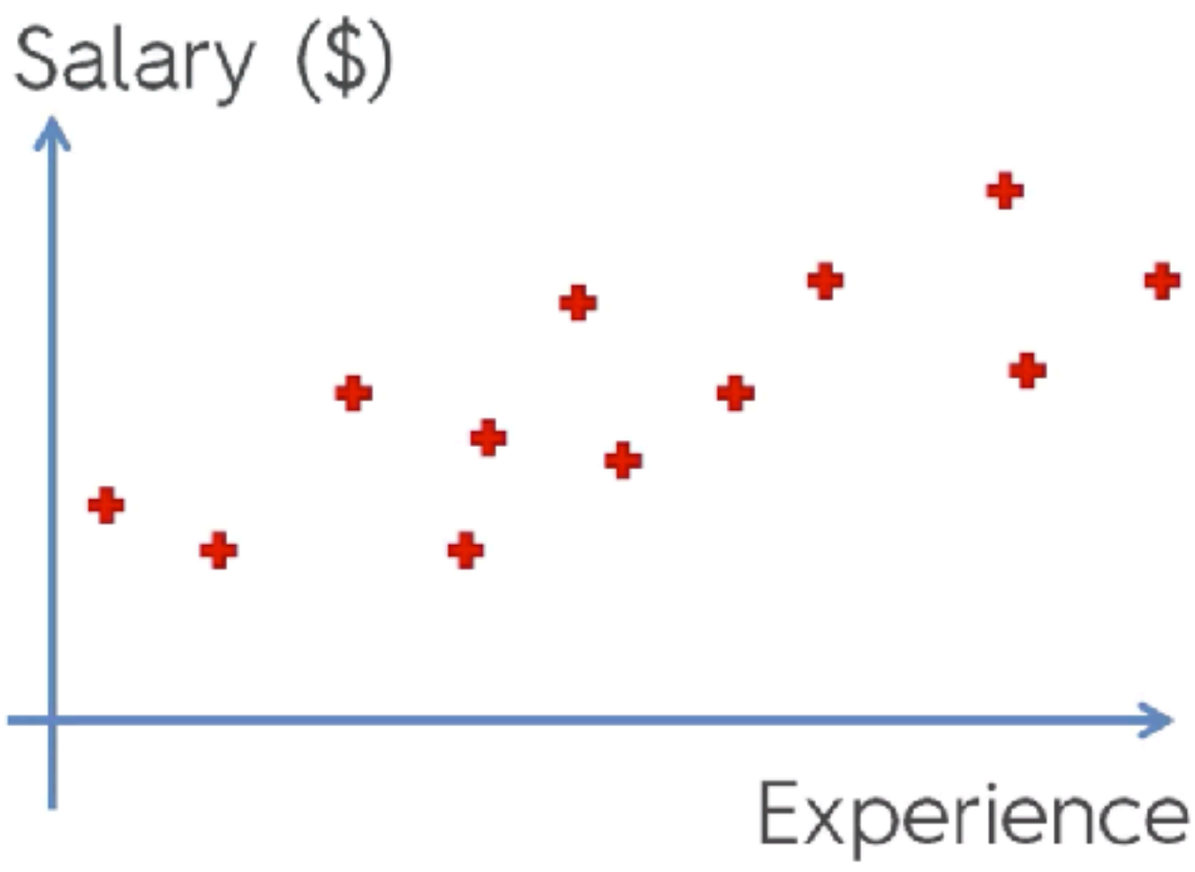


Regressions

Simple Linear Regression:

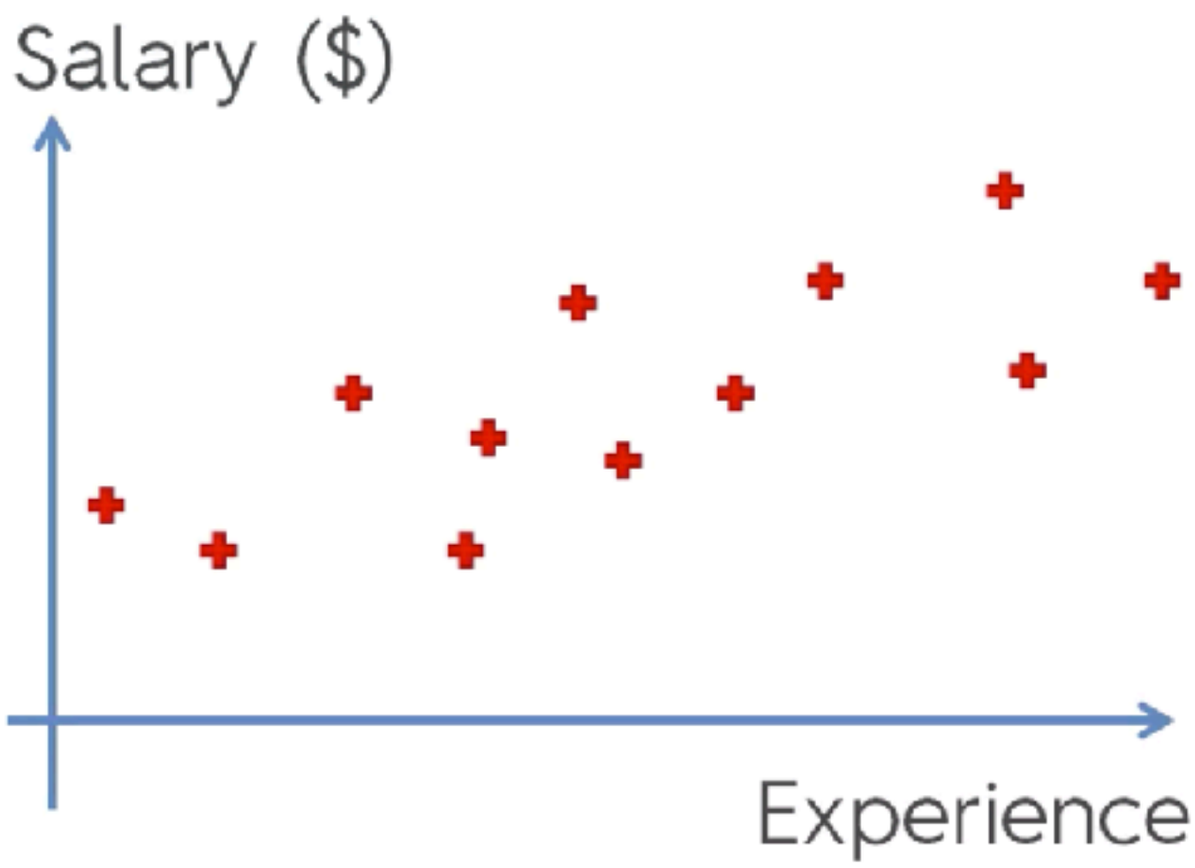
Regressions

Simple Linear Regression:



Regressions

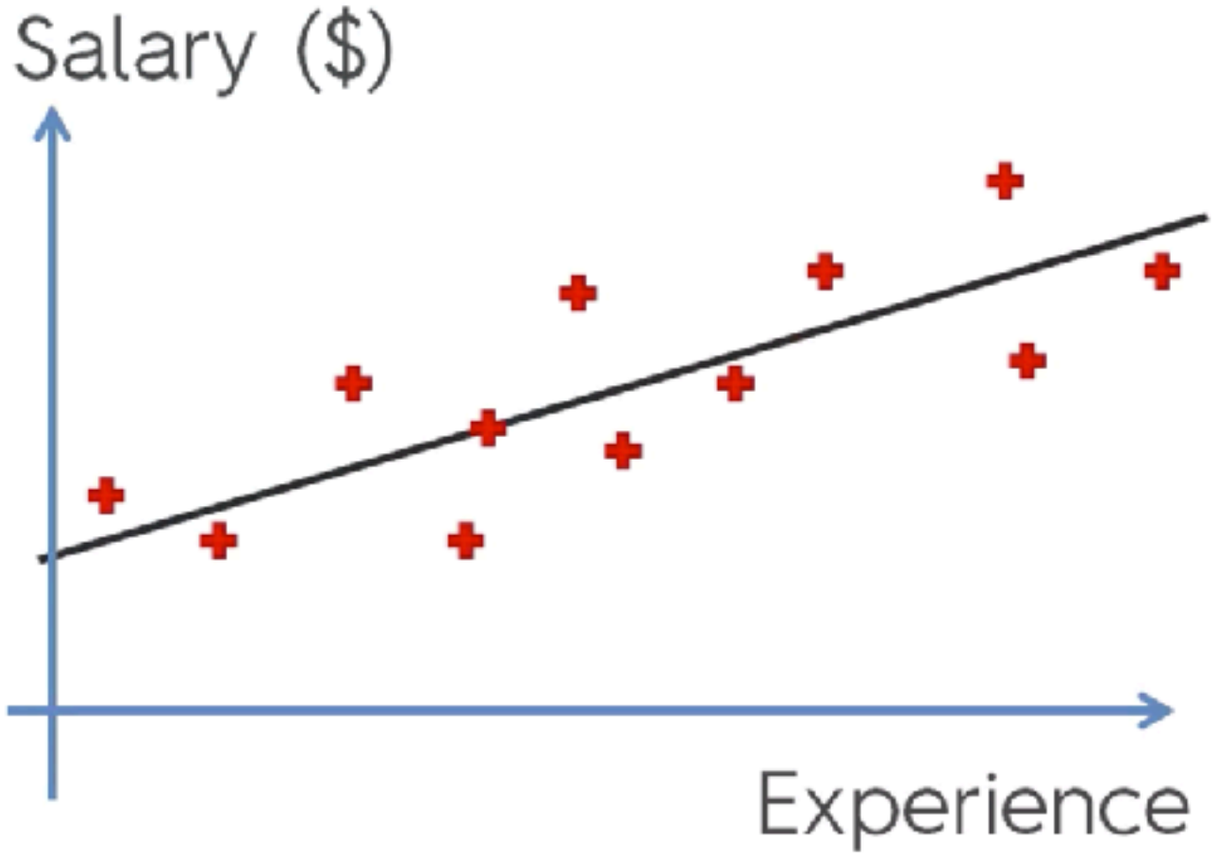
Simple Linear Regression:



$$y = b_0 + b_1 * x$$

Regressions

Simple Linear Regression:

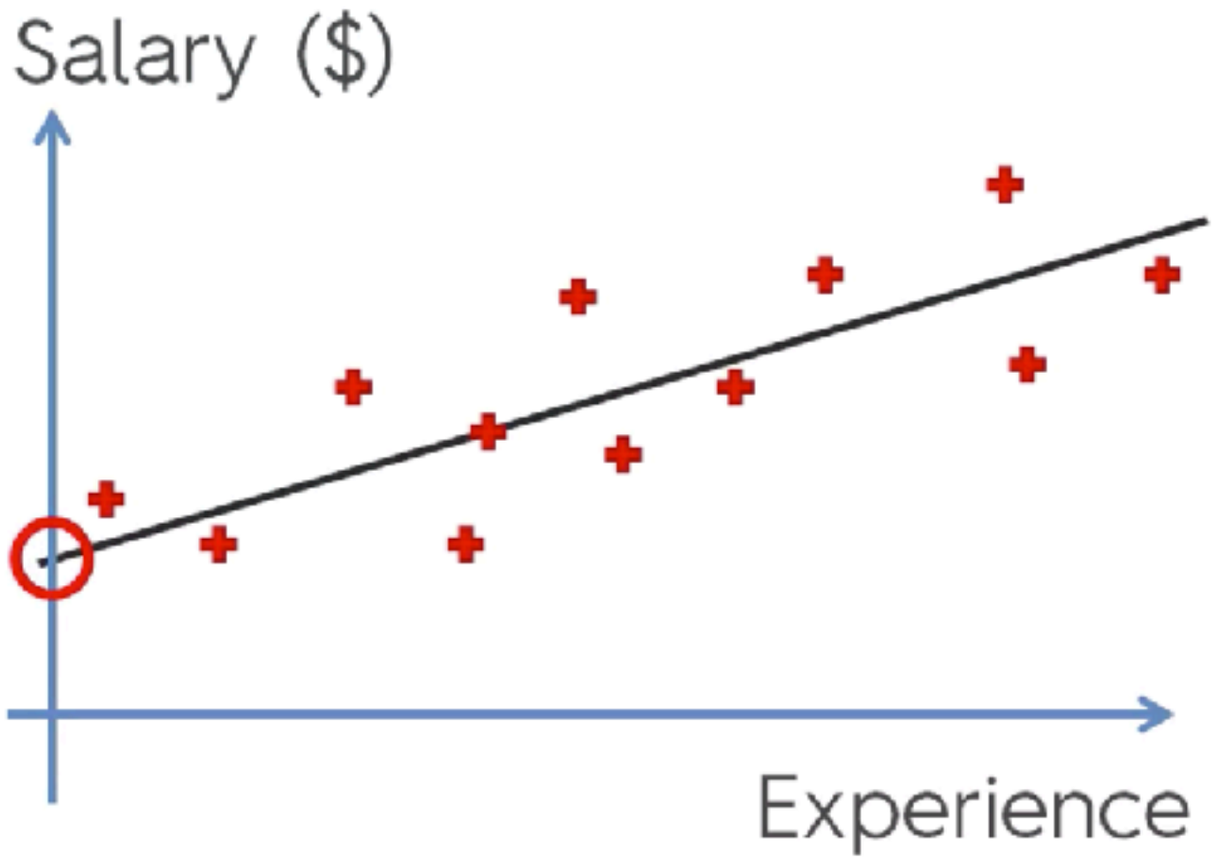


$$y = b_0 + b_1 * x$$

$$\text{Salary} = b_0 + b_1 * \text{Experience}$$

Regressions

Simple Linear Regression:

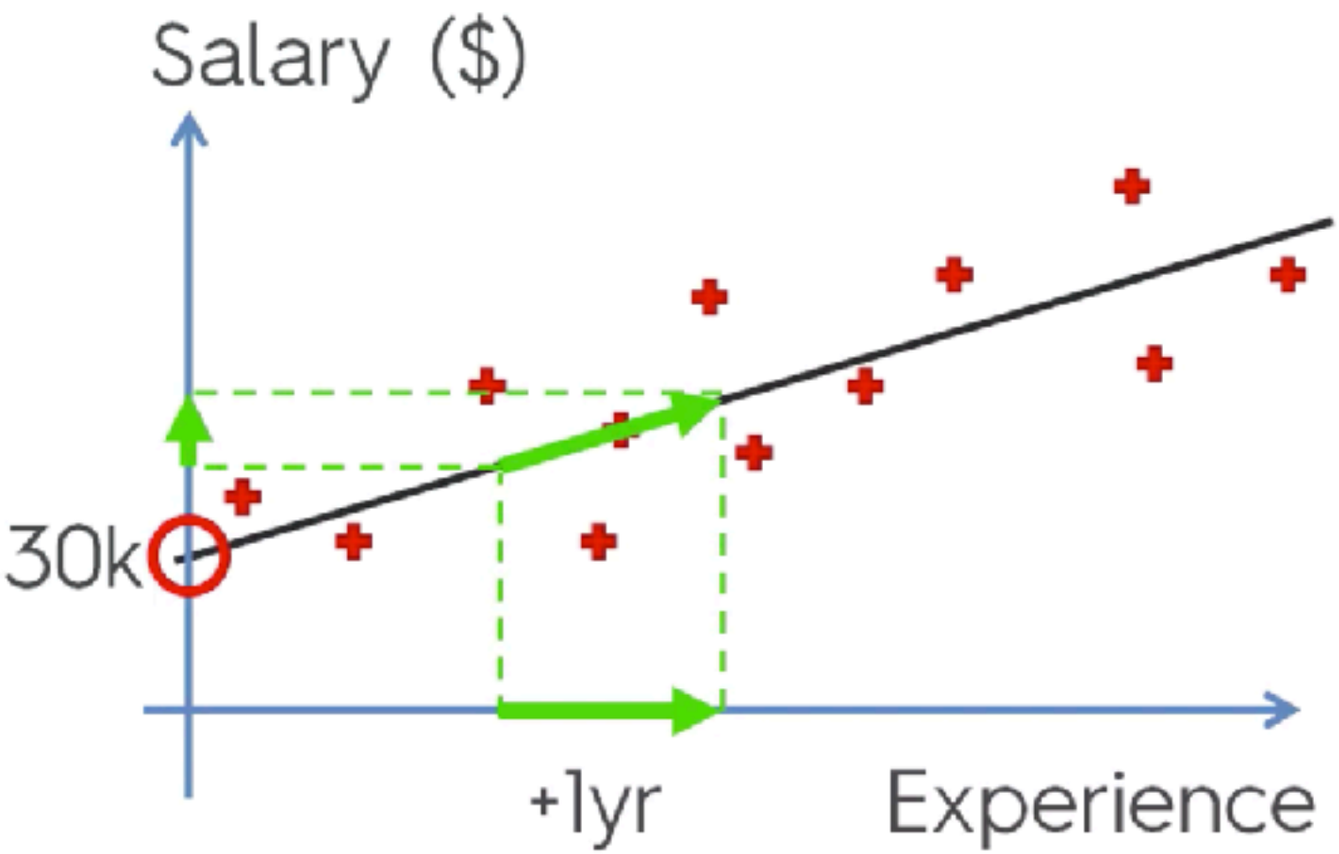


$$y = b_0 + b_1 * x$$

Salary = b_0 + b_1 *Experience

Regressions

Simple Linear Regression:

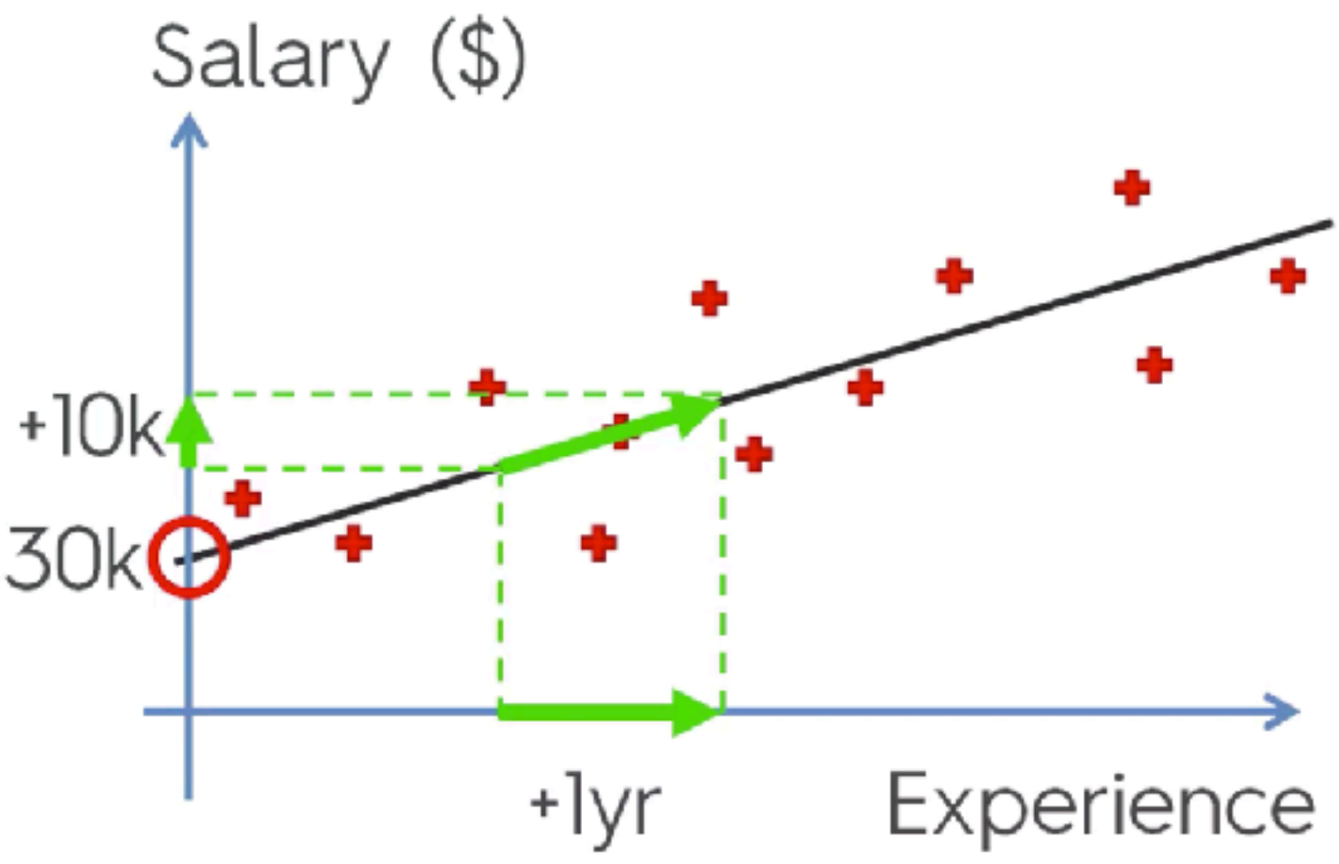


$$y = b_0 + b_1 * x$$

Salary = b_0 + b_1 *Experience

Regressions

Simple Linear Regression:

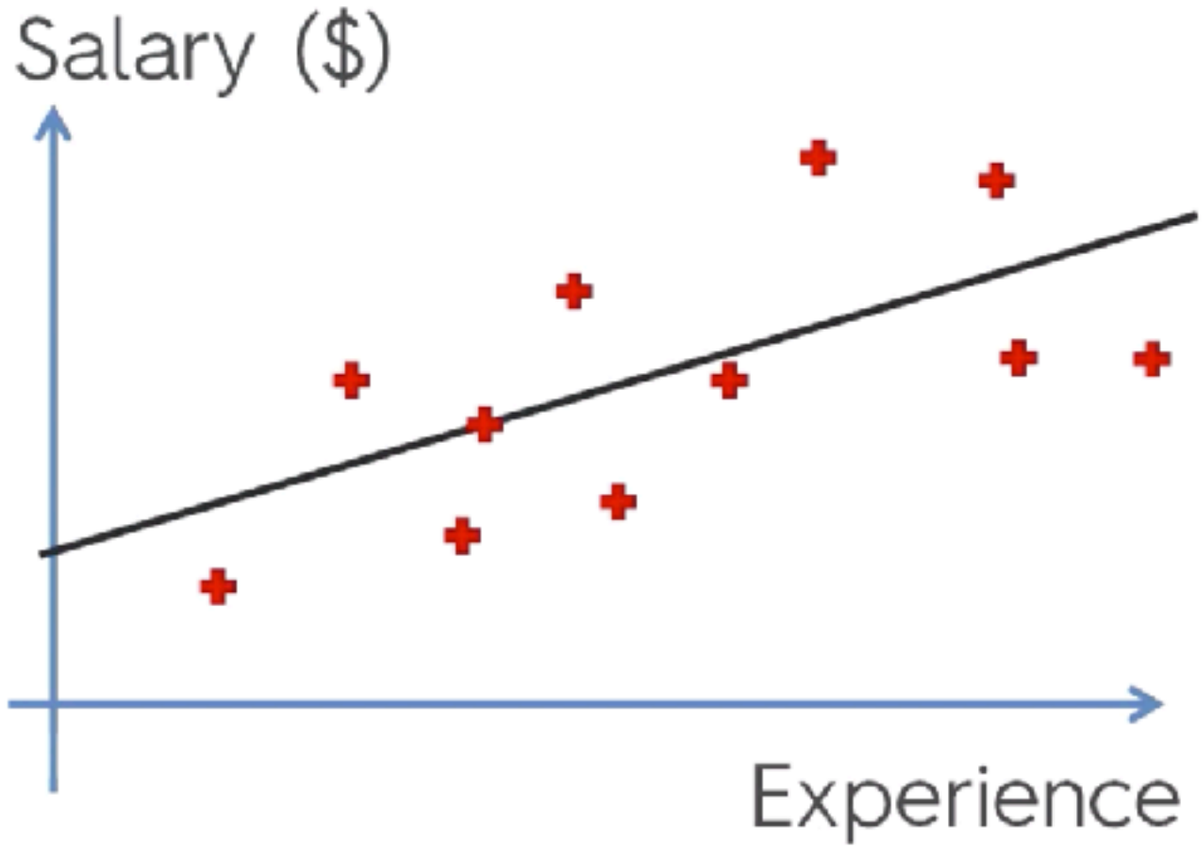


$$y = b_0 + b_1 * x$$

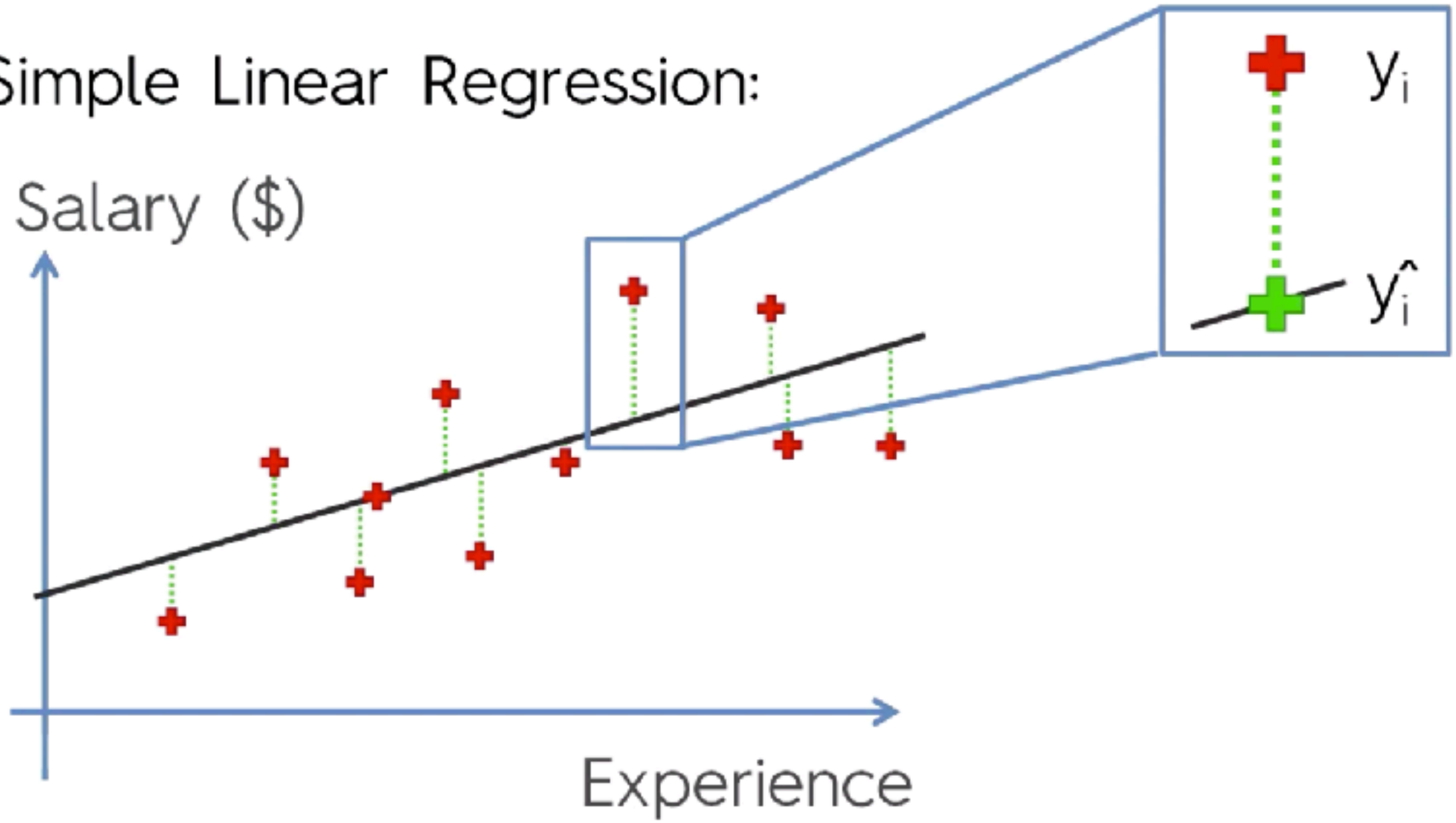
$$\text{Salary} = b_0 + b_1 * \text{Experience}$$

Ordinary Least Squares

Simple Linear Regression:

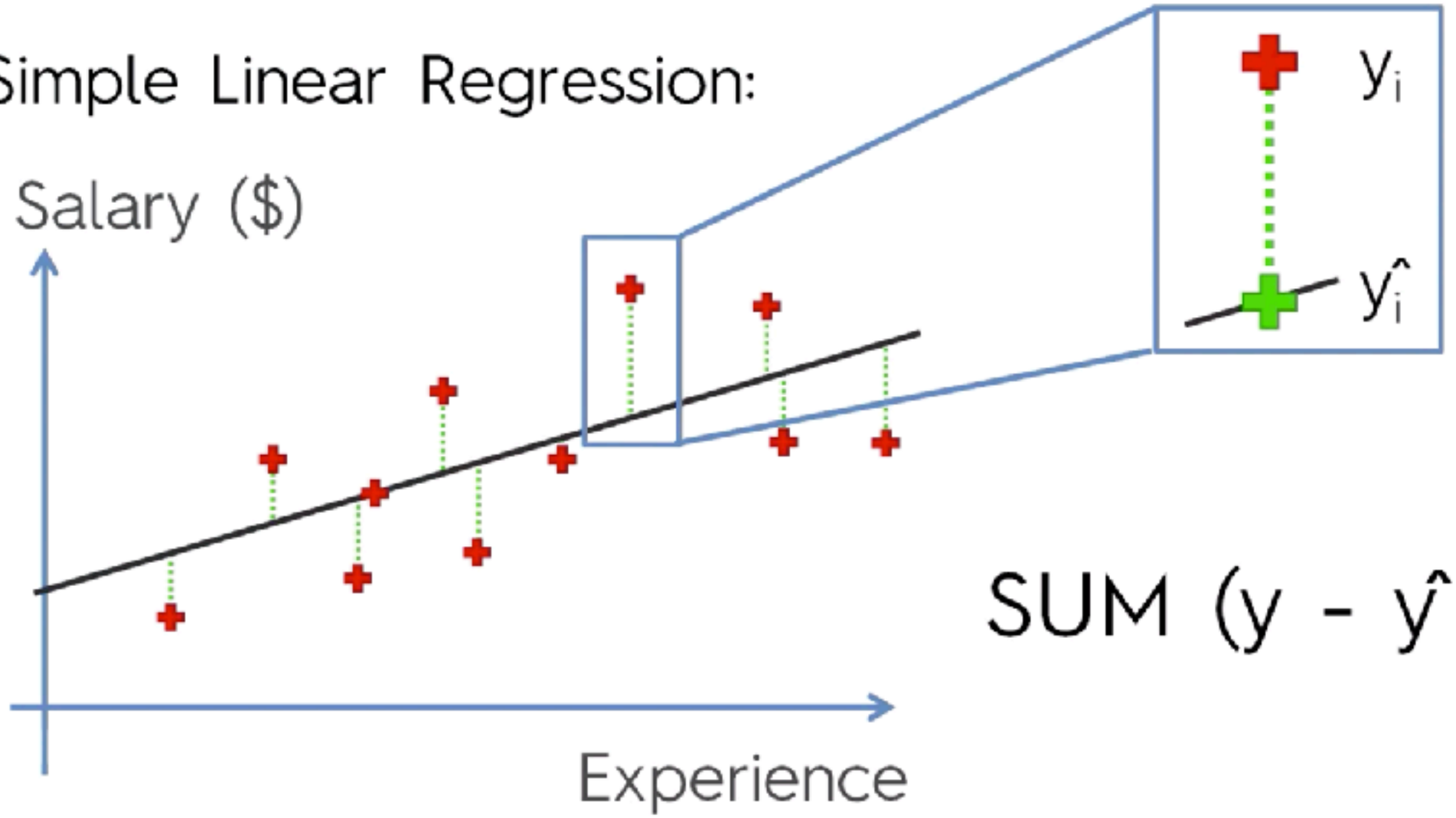


Ordinary Least Squares



Ordinary Least Squares

Simple Linear Regression:



$$\text{SUM } (y - \hat{y})^2 \rightarrow \min$$