# Simple Linear Regression: -

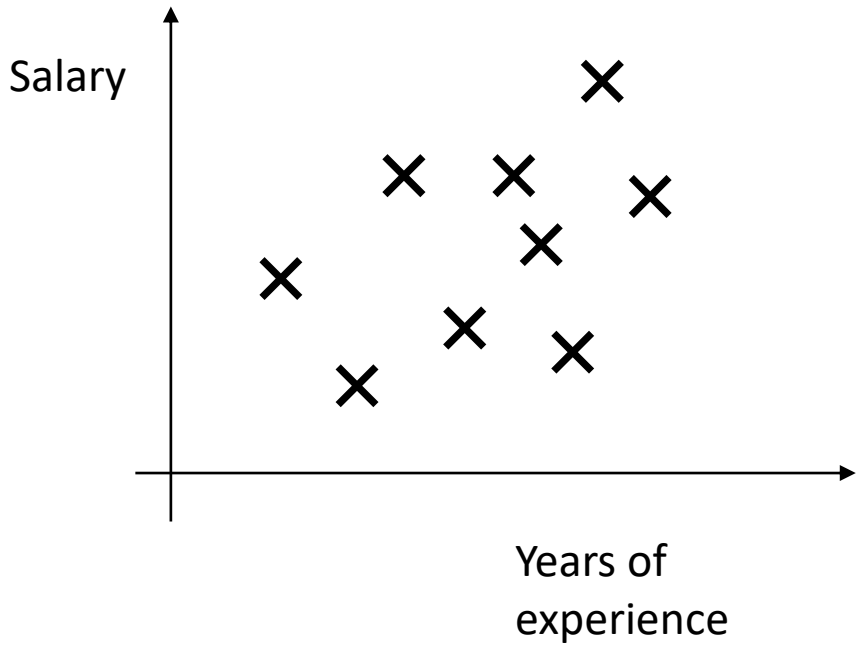
$$Y = B_0 + B_1 * X$$

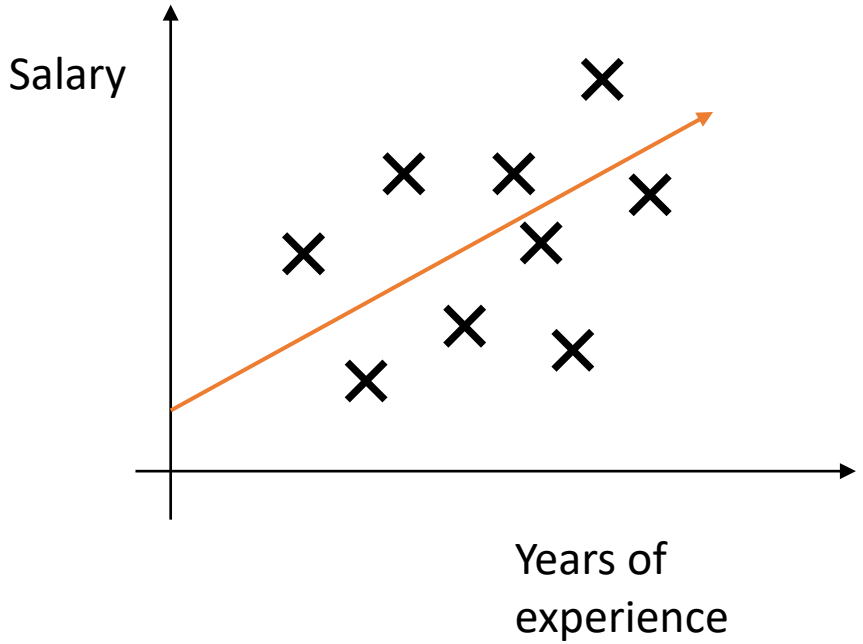
Y is the dependent variable

$B_0$ is the constant

$B_1$ is the coefficient

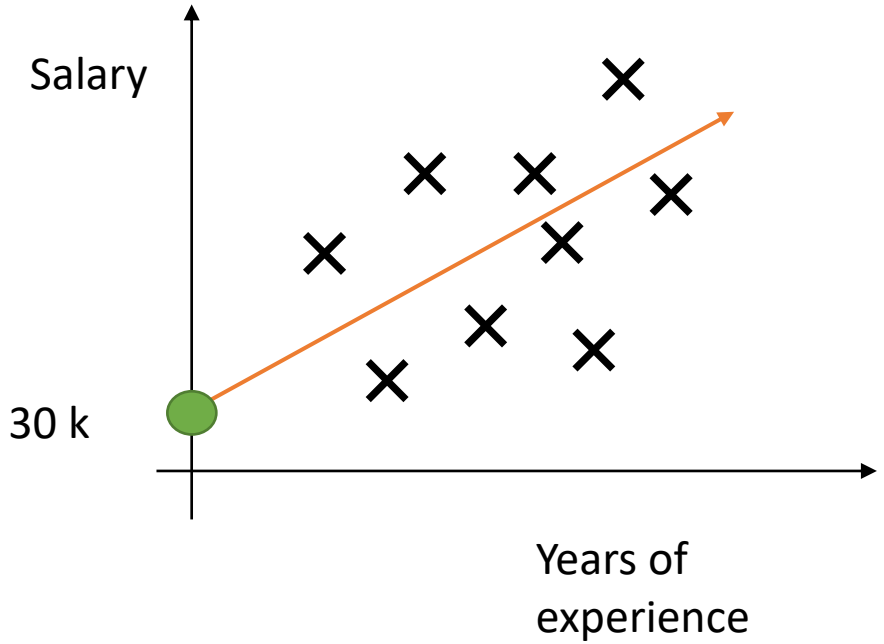
X is the independent variable





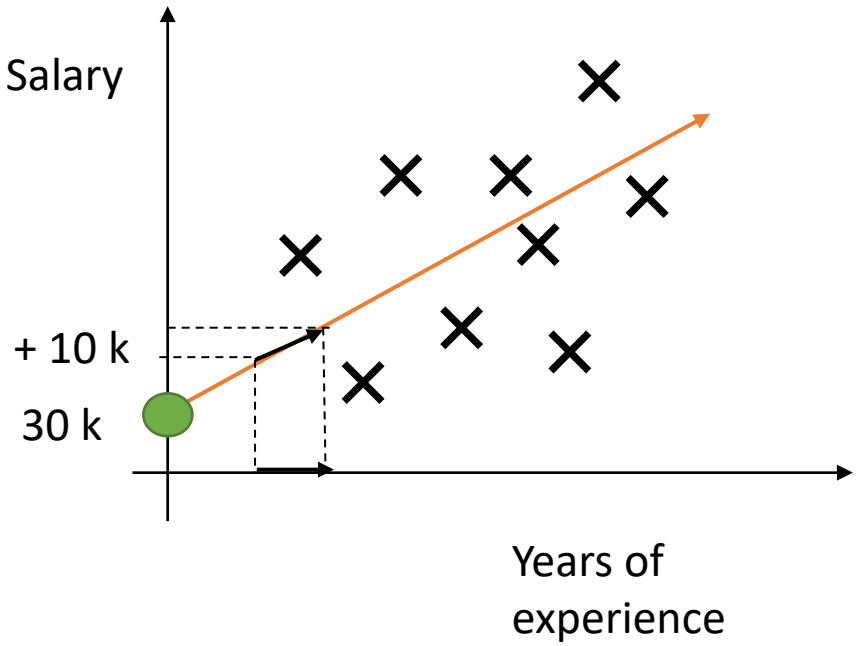

$$Y = B_0 + B_1 * X$$

$$\text{Salary} = B_0 + B_1 * \text{Experience}$$



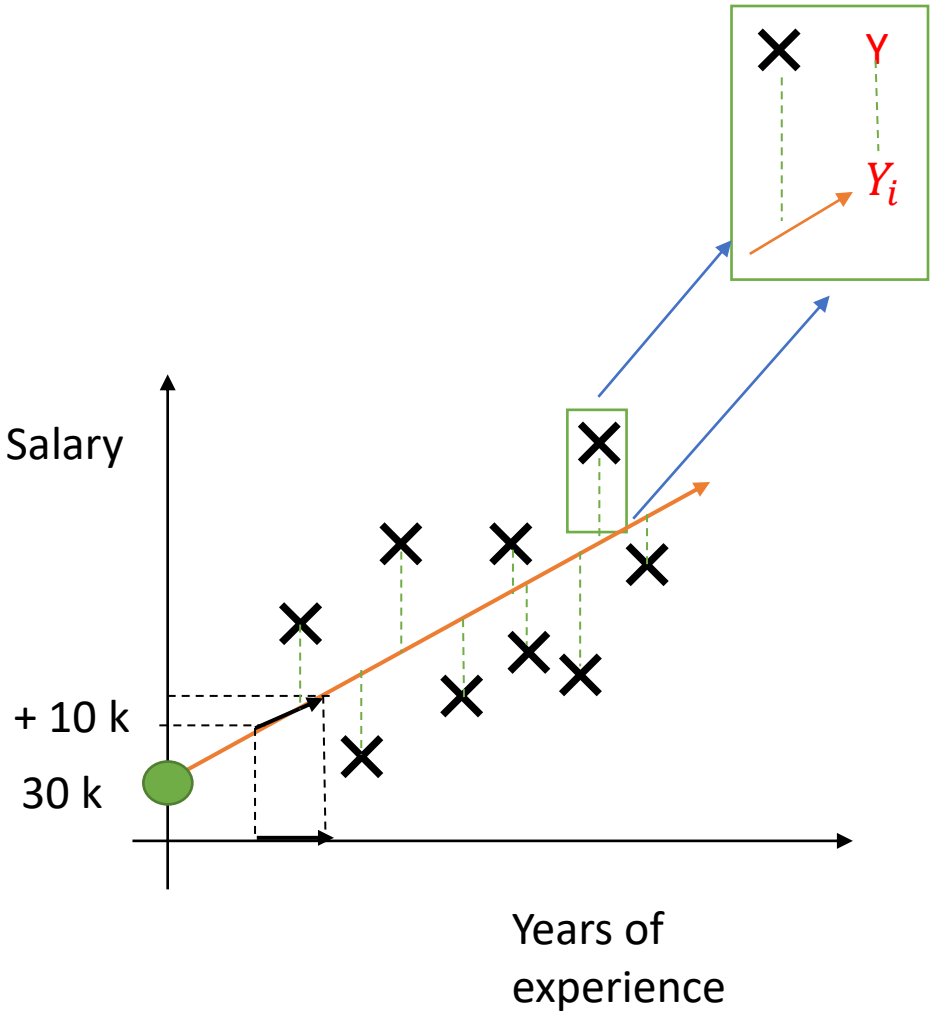

$$Y = B_0 + B_1 * X$$

Salary = $B_0$ + $B_1$ * Experience




$$Y = B_0 + B_1 * X$$

Salary = $B_0$ + $B_1$ * Experience




$$Y = B_0 + B_1 * X$$

Salary = $B_0$ + $B_1$ * Experience

Minimize the

SUM ( Y - $Y_I$ )$^2$