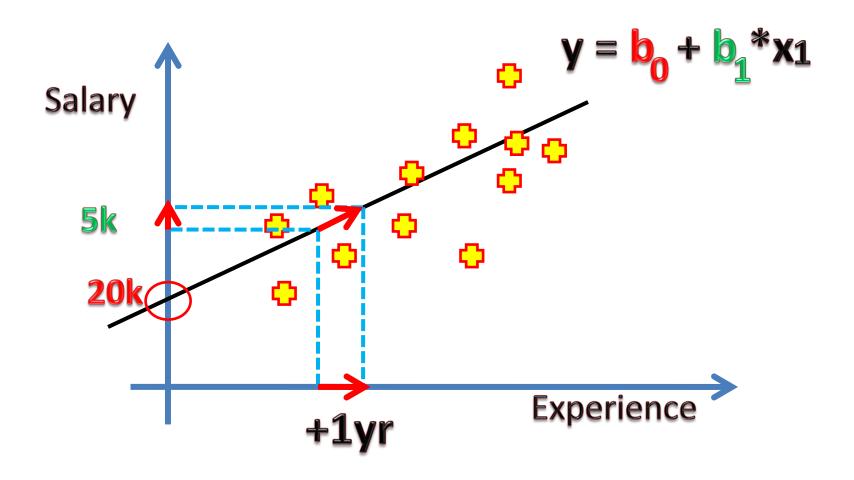
Linear Regression

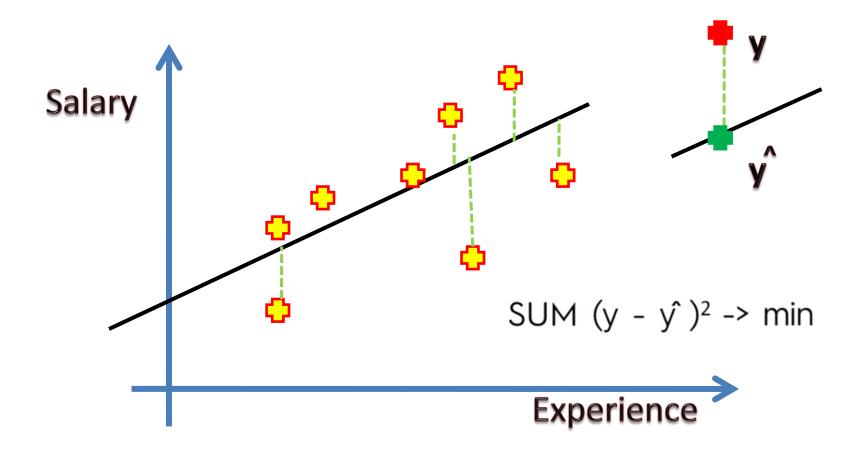
$$y = b_0 + b_1 x_1$$

- **y** is the dependent variable
- x1 is independent variable
- **b1** is coefficient of X or the slope of the line
- **b0** is the constant called intercept

Linear Regression



Linear Regression



Multiple Linear Regression

$$y = b_0 + b_1^*x_1 + b_2^*x_2 + ... + b_n^*x_n$$

Dummy Variables

- A Dummy variable or Indicator Variable is an attackal variable created to represent an attribute two or more distinct categories/levels.
- Regression analysis treats—in the analysis as number.
- To include Champs like Gender, Product Brand, then Dump Chariables are created in this situation to trick the egression algorithm into correctly analyzing column variables.