

Simple Linear Regression

Intuition – Step 1

Regressions

Simple Linear Regression

Constant Coefficient

↓ ↓

$$y = b_0 + b_1 * x_1$$

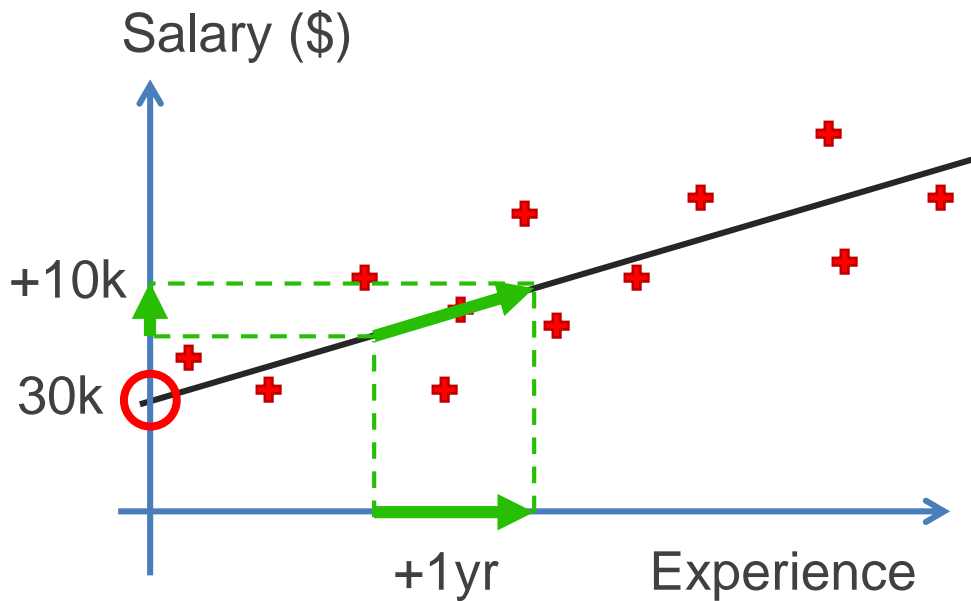
↑ ↑

Dependent variable (DV) Independent variable (IV)

The diagram illustrates the components of the Simple Linear Regression equation $y = b_0 + b_1 * x_1$. The equation is centered on the slide. Above the equation, the word 'Constant' is positioned above b_0 and 'Coefficient' is positioned above b_1 . Green arrows point from 'Constant' down to b_0 and from 'Coefficient' down to b_1 . Below the equation, 'Dependent variable (DV)' is positioned below y and 'Independent variable (IV)' is positioned below x_1 . Green arrows point from 'Dependent variable (DV)' up to y and from 'Independent variable (IV)' up to x_1 .

Regressions

Simple Linear Regression:



$$y = b_0 + b_1 * x$$



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