Step 1: Multiple Linear Regression Intuition

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Regressions

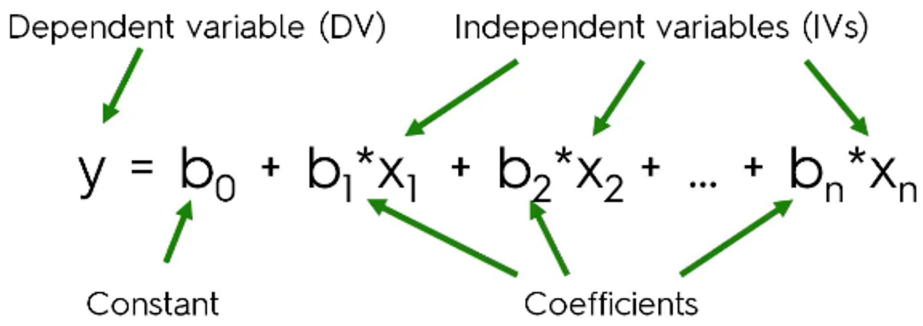
Simple Linear Regression

$$y = b_0 + b_1 * x_1$$

Multiple Linear Regression

$$y = b_0 + b_1 * x_1 + b_2 * x_2 + \ldots + b_n * x_n$$

Multiple Linear Regression



- y is a Dependent Variable(DV). For Instance, how does a person's salary change with the years of experience he has.
- $x_1, x_2, \ldots\ldots x_n$ is an Independent Variables (IVs) is variable that, we are assuming that it is causing dependent variable to change.
- $b_1, b_2, \ldots\ldots b_n$ is a coefficient for the independent variable and it kinda says how a unit change in $x_1, x_2, \ldots\ldots x_n$ affects in y.
- b_0 is a constant term.