Multiple Linear Regression:

Previously our dataset had two features: One Input feature (Weight) and One output feature (Height).

Where,

x indicates the input feature

is the y intercept

is the slope

Here we were only trying to change and . We were not trying to change x.

If we have multiple input features in our dataset for example: House Pricing dataset

Input features: Size of the house, No. of rooms, Location

Output feature: Price of the house

[Multiple Linear Regression]

Where,

is the intercept

are coefficients or slopes for each respective feature

As features increase, coefficients will increase but there will be only one intercept in the equation

