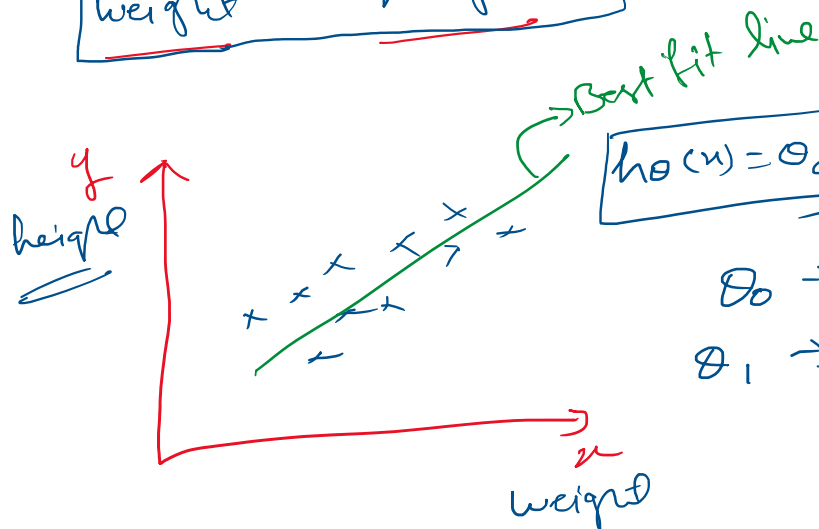
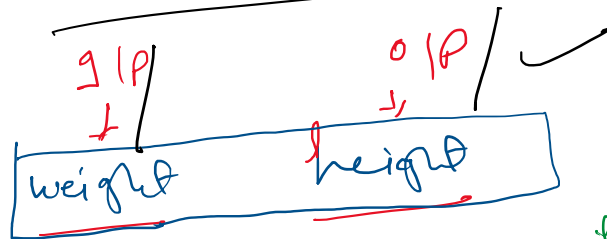


# Multiple linear Regression

Dataset



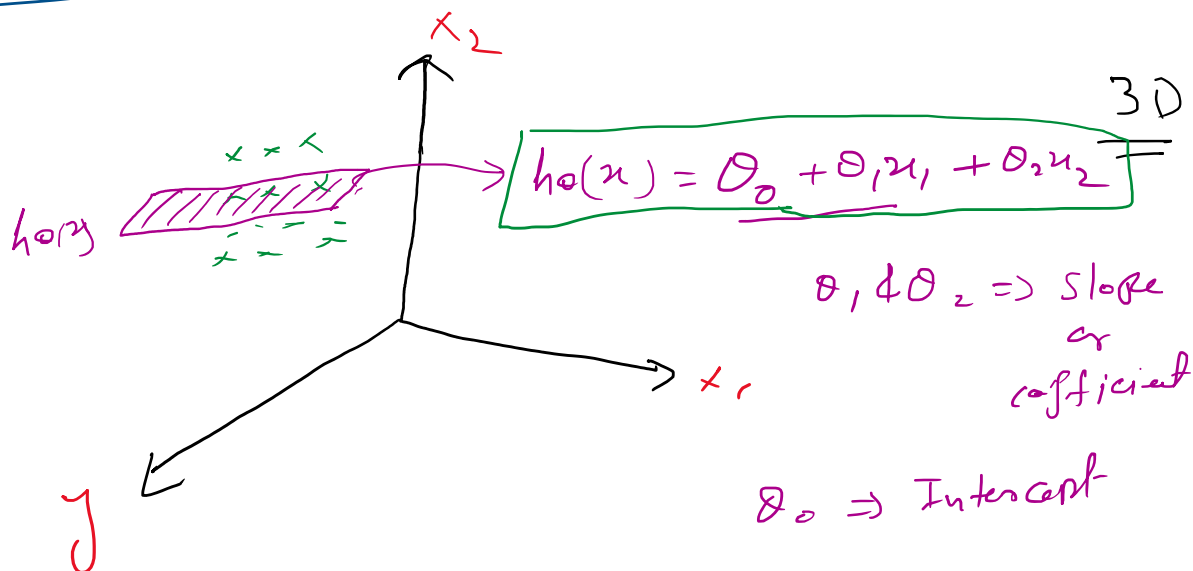
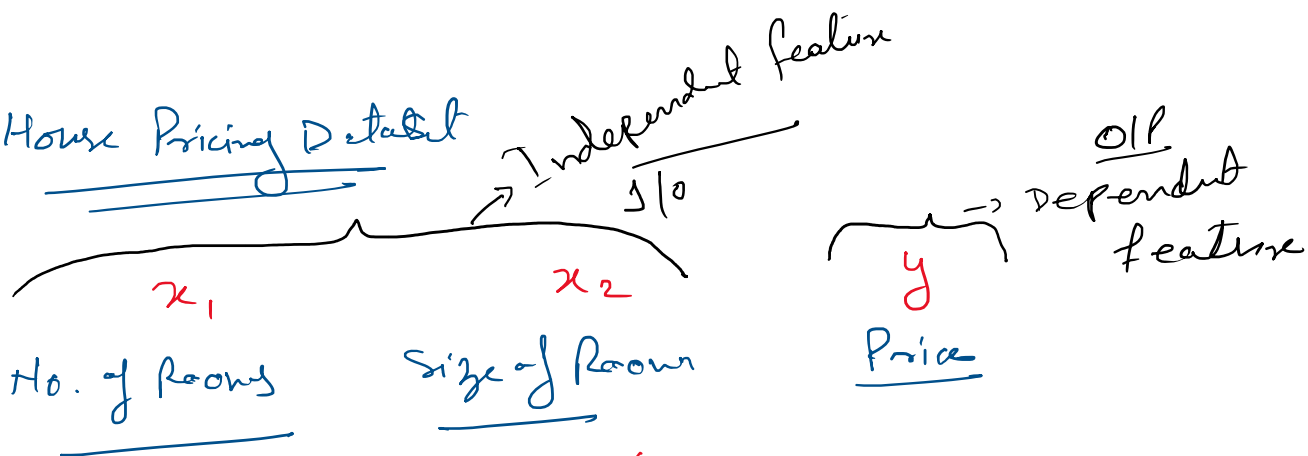
$$h_0(x) = \theta_0 + \theta_1 x$$

2D

$\theta_0 \rightarrow$  Intercept  
 $\theta_1 \rightarrow$  Coefficient of slope

Ex

House Pricing Dataset



$\theta_1, \theta_2 \Rightarrow$  slope or coefficient

$\theta_0 \Rightarrow$  Intercept

Simple linear Regression

Simple linear Regression

$$h_{\theta}(x) = \theta_0 + \theta_1 x_1$$

Generic Equation Multiple  
Linear Regression

$$h_{\theta}(x) = \theta_0 + \theta_1 x_1 + \theta_2 x_2 + \theta_3 x_3 \dots \theta_n x_n$$