

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

θ_i = parameter of hypothesis

$$J(\theta_0, \theta_1) \Rightarrow y = mx + b$$

\downarrow \downarrow
 b mx

cost function: find the average-residual

find the value of θ_0, θ_1 so that the average-residual is minimum.

gradient descent: keep changing the parameter till we end up at a minimum. or

keep subtracting ^{the} derivative of the cost-function with respect to certain parameters (θ_0 or θ_1) until derivative = 0 where we reach a local extreme

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

$$J(\theta_0, \theta_1) = \frac{1}{2m} \sum_{i=1}^m (\hat{y}_i - y_i)^2$$

$$\theta_j = \theta_j - \alpha \frac{d}{d\theta_j} J(\theta_0, \theta_1)$$

for $j=0; j=1$

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