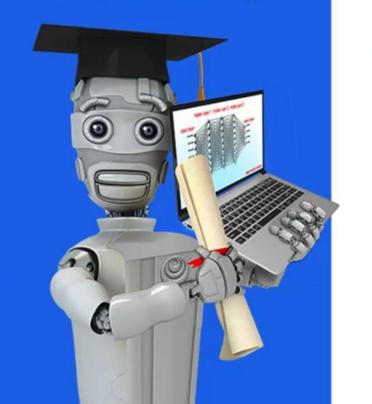
Stanford ONLINE

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Linear Regression with One Variable

Visualizing the Cost Function

Model

$$f_{w,b}(x) = wx + b$$

before: b=0

Parameters

Cost Function

$$J(w,b) = \frac{1}{2m} \sum_{i=1}^{m} (f_{w,b}(x^{(i)}) - y^{(i)})^2$$

Objective

$$\min_{w,b} \operatorname{minimize} J(w,b)$$

