

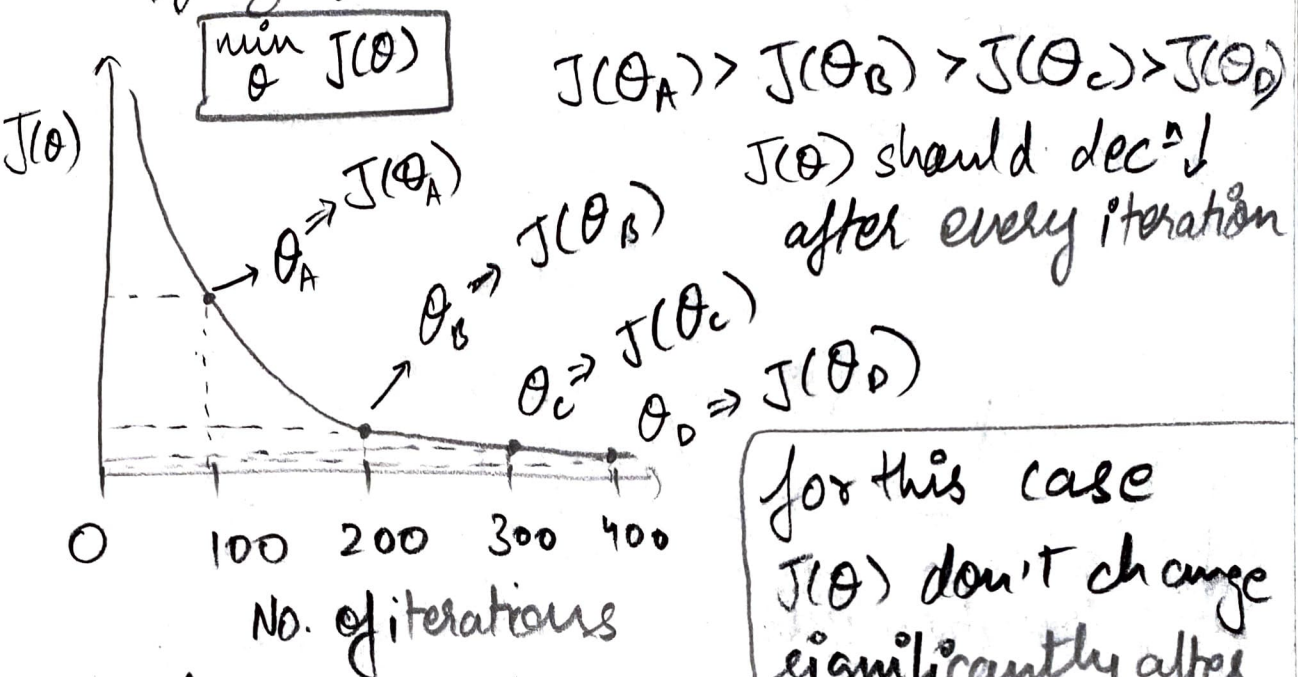
$\hat{x}_1 = \frac{\text{Age} - 40}{20}$

input feature \rightarrow $30 \leq \text{Age} \leq 50$

$20 \rightarrow$ avg Age
 \rightarrow range of Age

feature scaling can make gradient descent much faster

Dehugging Gradient descent.



No. of iterations for gradient descent to get

$\min_{\theta} J(\theta)$ can vary significantly

⇒ Eg of a automatic convergence test:

Declare convergence if $J(\theta)$ is less than 10^{-3} in one iterations

↳ this threshold is not definitive and plotting $J(\theta)$ vs #iteration graph is better to declare convergence.