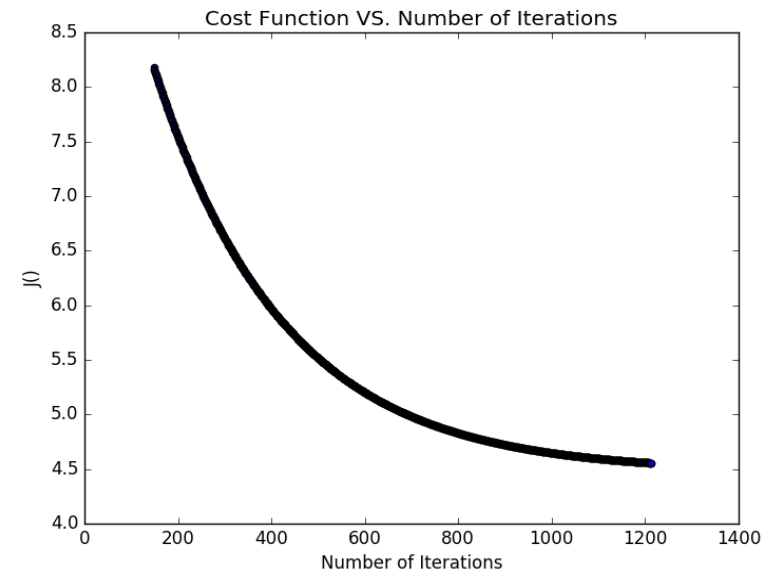


# Profit Predictor



## Gradient Descent

Profit = ~3.8

$\alpha = 0.01$

2184 Iterations

$\Theta_0 = -3.7216568028$

$\Theta_1 = 1.17554099221$

## Normal Equation

Profit = ~3.8

$\Theta_0 = -3.89578088$

$\Theta_1 = 1.19303364$

## $\alpha$ too large :

J() does not converge

MAX iterations reaches and program stops.

## $\alpha$ good enough:

J() converges in a reasonably short amount of time.

## $\alpha$ too small:

J() converges but takes a lot of time.

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