A Single Neuron
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Outline

• A quick tour of machine learning
• A description of linear regression
• A description of classification

• Description of a single neuron
A Quick Tour of Machine Learning

Linear Regression (Scalar Output)

Linear Regression - MIT Mathlets
(https://mathlets.org/mathlets/linear-regression/)
Classification

A Neural Network Playground
(https://playground.tensorflow.org)
A Single Neuron

• AKA perceptron or logistic-regression (more or less)
• Come up with a classification problem for us to use as an example
What do we optimize?
Gradient Descent