Setting Up the Architecture

August 1, 2017

Abstract

- Coarse model of the neuron
- Activation functions (including ReLU)
- Neural Networks (NNs) with Fully-Connected Layers
- Efficient matrix multiplication in NNs
- NNs as universal function approximators
- Model capacity

1 Quick Intro

A very simple NN: $s = W_2 max(0, W_1 x)$