Neural Networks-Summary Sheet

ML@LSE

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Abstract

Objectives: Understand the structure of feedforward neural networks. Understand how feedworward neural networks are trained using backpropagation.

Requirements: Introductory Bootcamp (you can read the slides if you didn't attend). Although not necessary, familiarity with partial derivatives, the chain rule and the gradient of a multivariate function may help.

Keywords: Perceptron, Weights, Biases, Activation function, Sigmoid activation function, Neural Network, Gradient descent, Backpropagation.