COMP9444 Neural Networks and Deep Learning

Quiz 1 (Perceptron Learning and Backpropagation)

This is an optional quiz to test whether you understand the material from Weeks 1 and 2 of the course.

1. What class of functions can be learned by a Perceptron?

2. Explain the difference between Perceptron Learning and Backpropagation.

3. When training a Neural Network by Backpropagation, what happens if the Learning Rate is too low? What happens if it is too high?

4. Explain why rescaling of inputs is sometimes necessary for Neural Networks.

5. What is the difference between Online Learning, Batch Learning, Mini−Batch Learning and Experience Replay? Which of these methods are referred to as "Stochastic Gradient Descent"?

Make sure you try answering the Questions yourself, before checking the Sample Answers