2. Objectives

Introduction to Feedforward Neural Networks

At the end of this lecture, you will be able to

- Recognize the number of **layers** of a **feedforward neural network** and the number of **units** in each layer.
- Write down common **activation functions** such as the hyperbolic tangent function $\tanh$, and the **rectified linear function (ReLU)** .
- Compute the output of a simple neural network possibly with **hidden layers** given the **weights** and **activation functions** .
- Determine whether data after transformation by some layers is linearly separable, draw decision boundaries given by the weight vectors and use them to help understand the behavior of the network.

Discussion

Show Discussion

Topic: Unit 3 Neural networks (2.5 weeks):Lecture 8. Introduction to Feedforward Neural Networks / 2. Objectives