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.

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