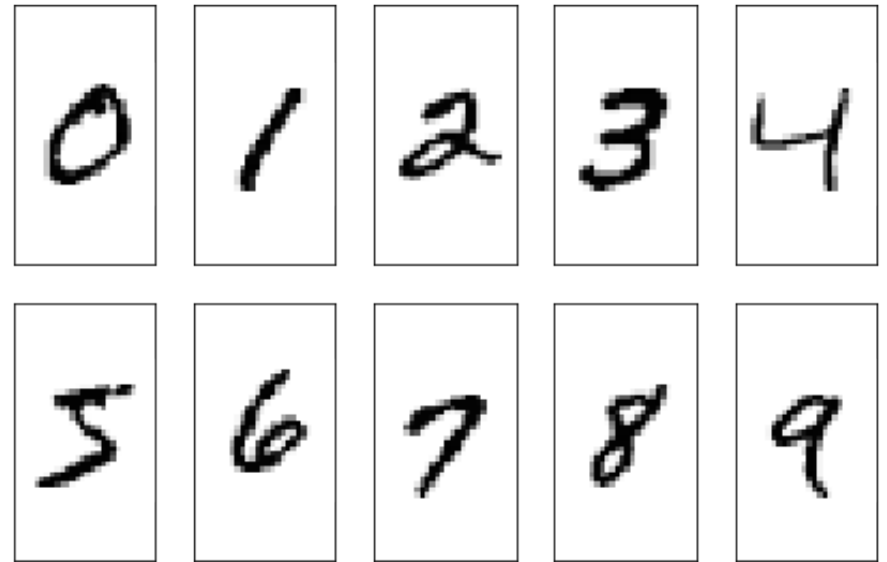




Neural Networks

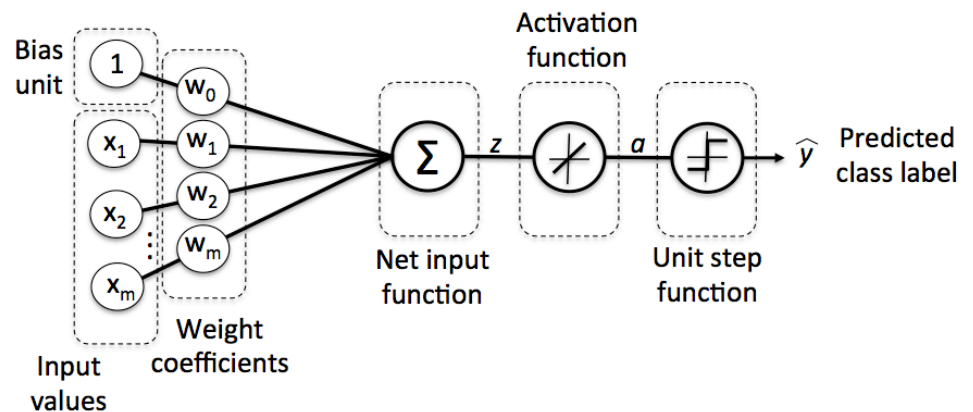
School of Information Studies
Syracuse University

Neural Networks



Single Layer Recap

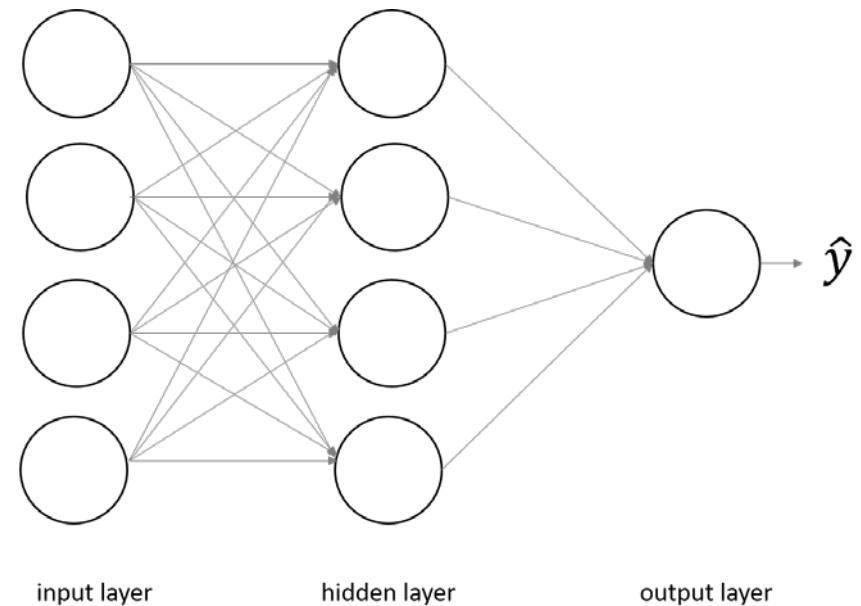
- Perceptron model
 - Unit step function
- Adaptive linear neuron
 - Activation function
- Input layer – output layer



Source: Raschka (2015).

Multilayer Introduction

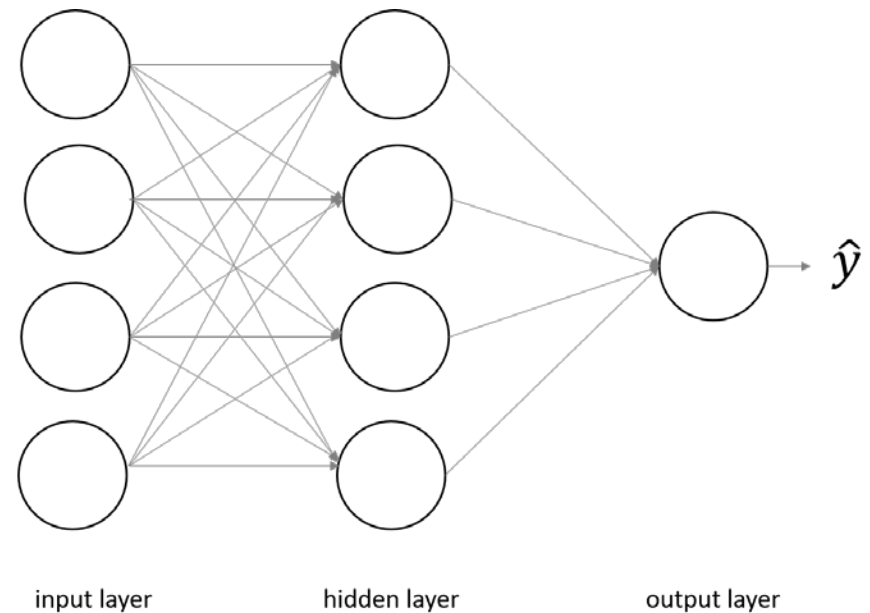
- Hidden layer fully connected to input layer
- Output layer fully connected to hidden layer
- Multiple hidden layers



Source: Adapted from Raschka (2015).

Multilayer Perceptrons

- Feedforward
- Hidden layers
 - Linear units
 - Rectified linear units
 - Logistic sigmoid
 - Softmax



Source: Adapted from Raschka (2015).