CSCI964 Computational Intelligence: Lab#1

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Task 1

1) Single-layer Neural Network is an Artificial Neural Network (ANN) with an input layer and a output layer.

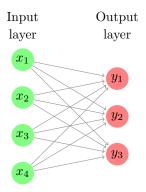


Figure 1: Single-layer Neural Network

2) Multi-layer Neural Network contains more than one layer of artificial neurons with several hidden layer.

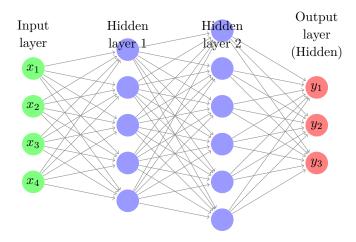


Figure 2: Multi-layer Neural Network

3) Shallow Neural Network contains less hidden layers (usually only one layer). It fit functions with a lot parameters.

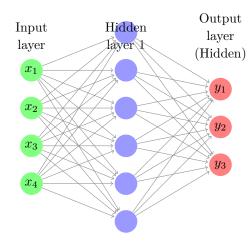


Figure 3: Shallow Neural Network

4) Deep Neural Network contains many hidden layers. It can fit functions better with less parameters than a shallow network.

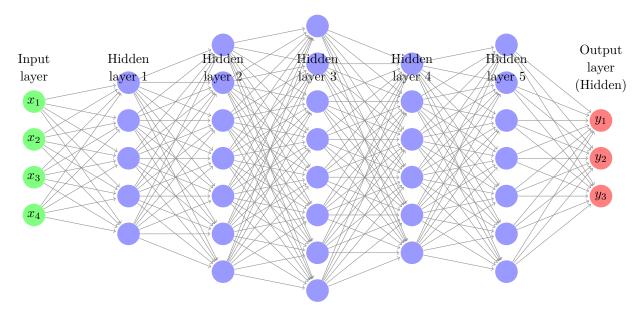


Figure 4: Deep Neural Network