



Neural Networks (Cont.)

- **Deep neural networks** have a large number of layers with large number of nodes in each layer
- **Deep learning** refers to training of deep neural network on very large numbers of training instances
- Each layer may be connected to previous layers in different ways
 - Convolutional networks used for image processing
 - More complex architectures used for text processing, and machine translation, speech recognition, etc.
- Neural networks are a large area in themselves
 - Further details beyond scope of this chapter