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The course will cover the fundamentals of neural networks, and introduce standard and new architectures: from simple feed forward networks to recurrent neural networks. We will cover stochastic gradient descent and backpropagation, along with related fitting techniques.

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Providing detailed examples of simple applications, this new book introduces the use of neural networks. It covers simple neural nets for pattern classification; pattern association; neural networks based on competition; adaptive-resonance theory; and more. For professionals working with neural networks.

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Input Layer: The training observations are fed through these neurons. Hidden Layers: These are the intermediate layers between input and output which help the Neural Network learn the complicated relationships involved in data. Output Layer: The final output is extracted from previous two layers.

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Natural Neural Networks. • Signals “move” via electrochemical pulses, combination of electrical signals and chemical signals working together. • A neuron receives input from other neurons (maybe hundreds or even thousands) from its synapses. • The synapses release a chemical transmitter – the sum of which can cause a threshold to be reached – causing the neuron to “fire”.

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If any neuron in a layer (for instance, the layer of hidden units) is connected to a neuron in another layer (say, the output layer), then each hidden unit is connected to every output neuron. The arrangement of neurons into layers and the connection patterns within and between layers is called the net architecture.

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Around  $2^n$  (where n is the number of neurons in the architecture) slightly-unique neural networks are generated during the training process, and ensembled together to make predictions. A good dropout rate is between 0.1 to 0.5; 0.3 for RNNs, and 0.5 for CNNs. Use larger rates for bigger layers.

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