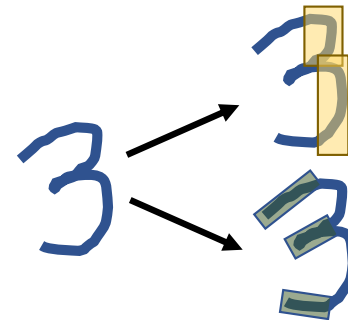
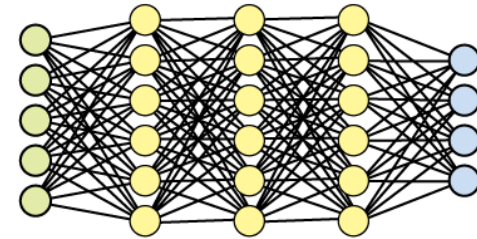


Different types of Artificial Neural Networks perform specialized tasks.

- **Multi-Layer Perceptrons (MLP)**
 - Classification, input/output mappings.
 - “Backend” of many CNNs and RNNs.
- **Convolutional Neural Networks (CNN)**
 - Image recognition and computer vision.
 - Use *convolution* layer to identify geometric features.
- **Recurrent Neural Networks (RNN)**
 - Speech processing and synthesis
 - Like a MLP or CNN with “memory”
 - Used with sequential inputs that lack a clear beginning or end.



Alexa, **play** **Today's** **Pop** music...

Alexa, **play** **Today's** **Pop** **music**...

Artificial Neural Networks can be fooled.

speakers



preying mantis



dog



Artificial Neural Networks can be fooled.

speakers



preying mantis



dog



ostrich



ostrich



ostrich



Artificial Neural Networks can be fooled.

