Deep Learning

Deep learning:

Deep learning is a branch of machine learning or a machine learning technique that can automatically learn features and tasks directly from data.That data can be images, text or even sound.Many people also call deep learning end-to-end learning
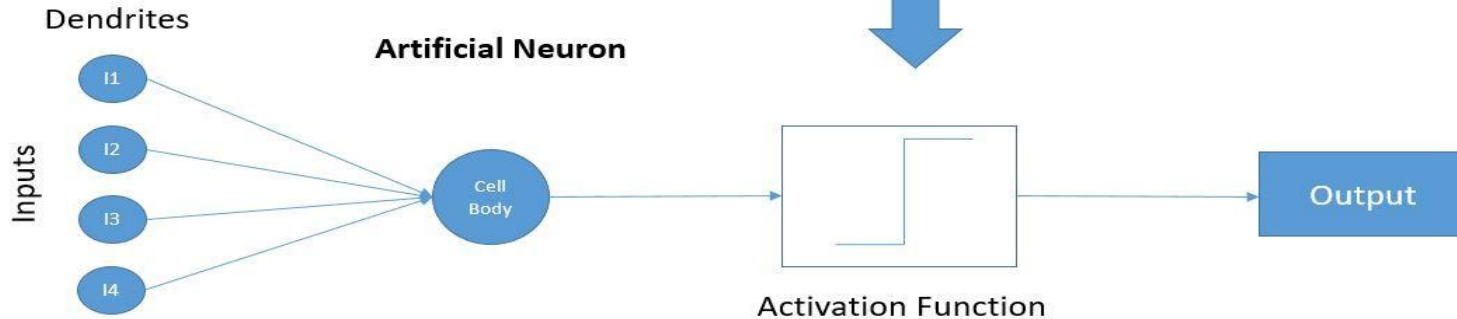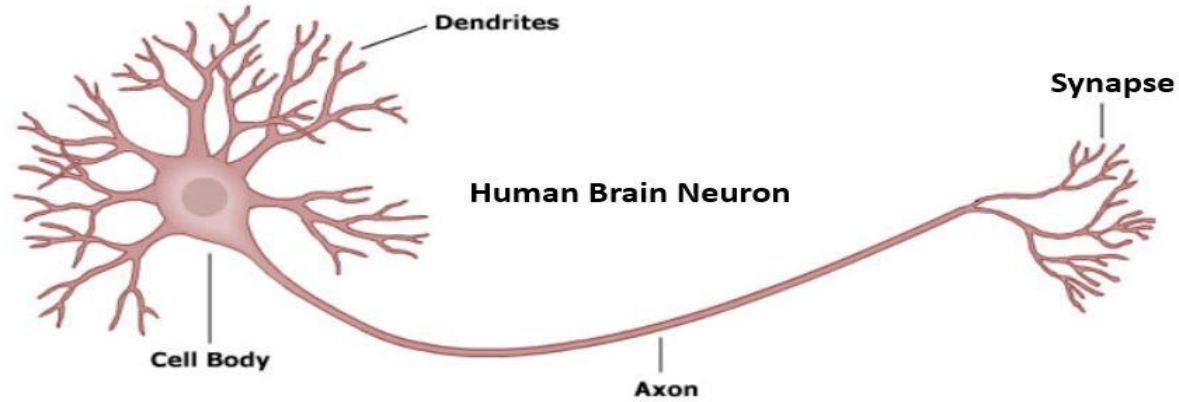
Why deep learning is becoming so popular:

First of all, the modern day deep learning methods are able to do the job of object recognition or classification much better than human beings.

Second, thanks to the GPU, many large deep networks are able to complete learning in a very short time.

Thirdly, the level of data that is required for very effective learning is then being utilized for the last 5/6 years through various services.
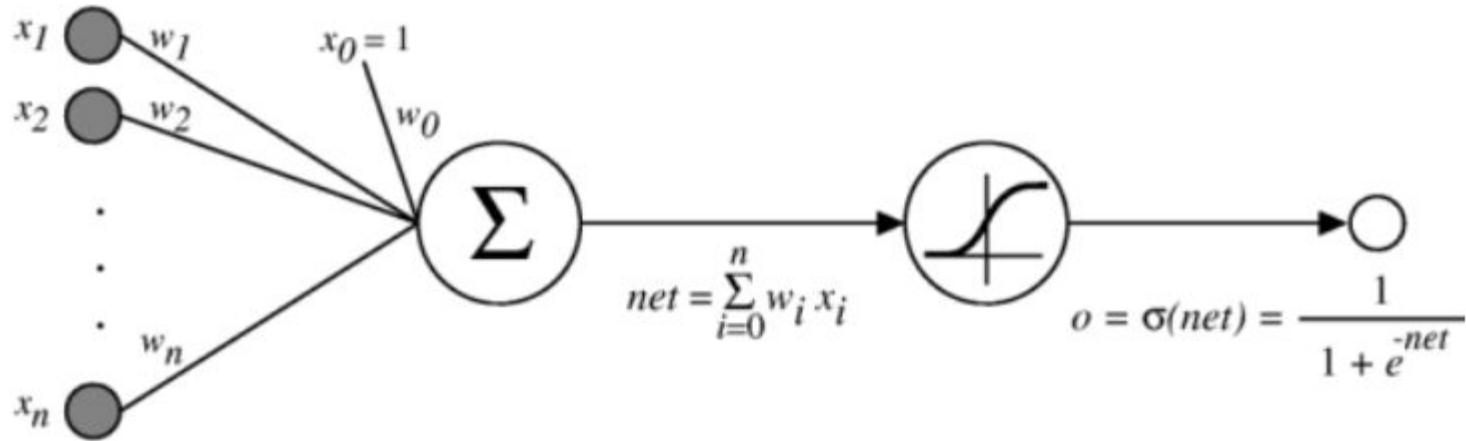
What is a neuron:
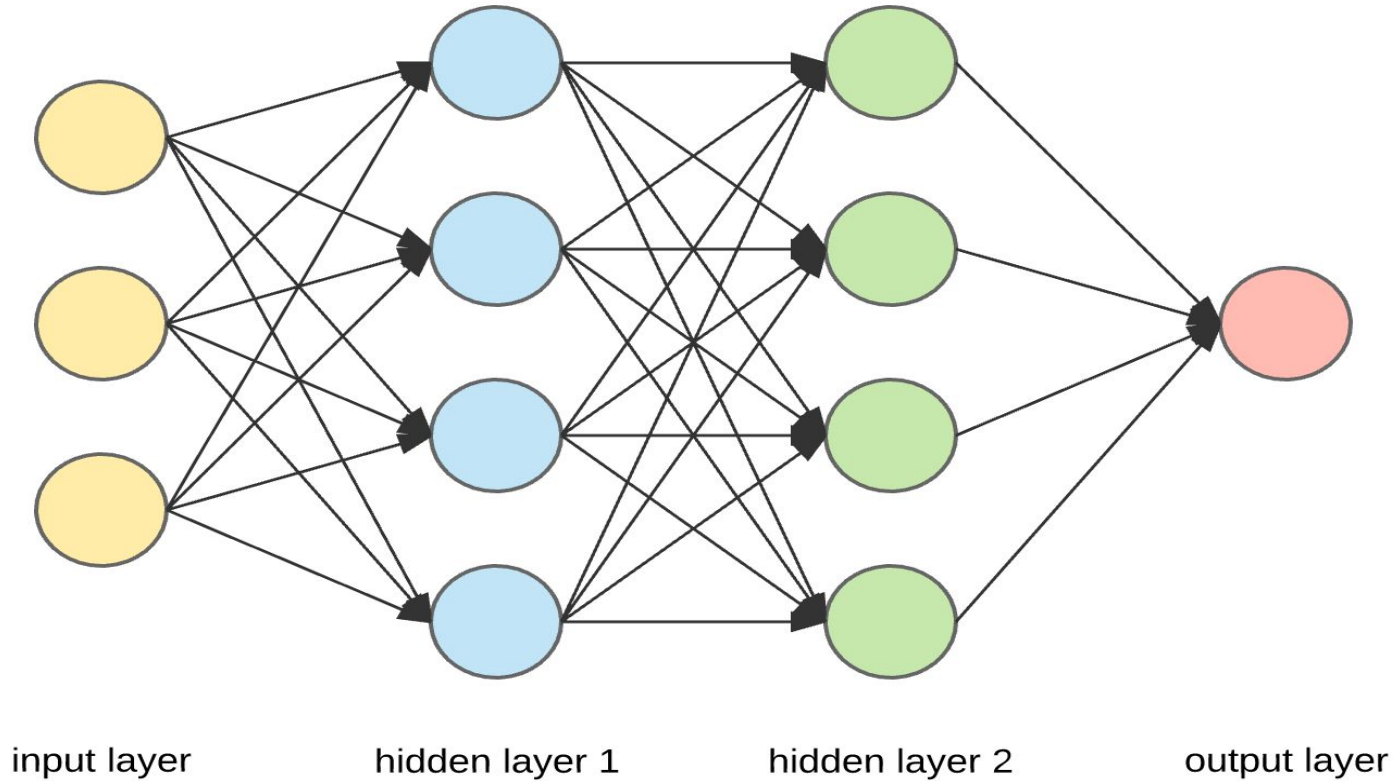
What is a neuron network:

	ইনপুট কম্বিনেশন			আউটপুট
উদাহরণ ১	0	0	1	0
উদাহরণ ২	1	1	1	1
উদাহরণ ৩	1	0	1	1
উদাহরণ ৪	0	1	1	0

নতুন অচেনা ইনপুট কম্বিনেশন	1	0	0	?

What is a neuron network:

What is a neuron network:

input layer   hidden layer 1   hidden layer 2   output layer

TensorFlow and Keras :

TensorFlow is a framework it's provides high and low level languages

pip install tensorflow

Keras has high level API and it's support multiple backend neural network computer engine.

pip install keras