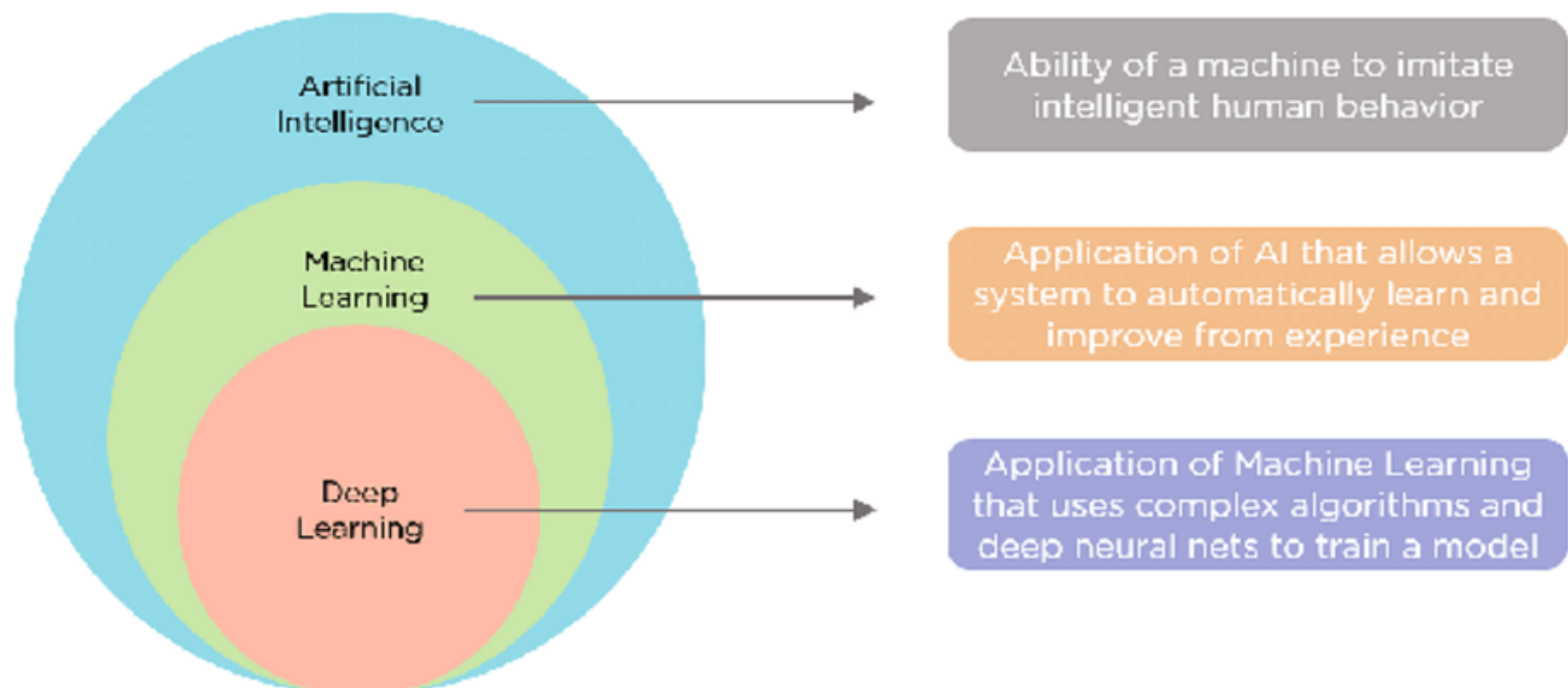


## UNIT-4

### Deep Learning Neural networks

#### What is Deep Learning?

**Deep Learning** is a computer software that mimics the network of neurons in a brain. It is a subset of machine learning based on artificial neural networks with representation learning. It is called deep learning because it makes use of deep neural networks. This learning can be supervised, semi-supervised or unsupervised.



Deep learning algorithms are constructed with connected layers.

- The first layer is called the **Input Layer**
- The last layer is called the **Output Layer**
- All layers in between are called **Hidden Layers**. The word **deep** means the network join neurons in more than two layers.