

## **What is Artificial Intelligence (AI)?**

AI is the study of how to make computers do things which at the moment people do better. In general it is the branch of computer science that deals with helping machines find solutions to complex problems in a more human-like fashion.

### **Supervised learning:**

- Inferring a function from training data that consists of training examples. Eg: classification
- It learns from available data and predicts unforeseen data.

### **Unsupervised learning**

- Finding hidden structure in unlabeled data. There is no distinction between explanatory and dependent variables. Eg: clustering

**Frameworks of AI:** include Tensorflow, keras, Pytorch, Theano, Microsoft Cognitive Toolkit, caffe, Amazon ML, Torch, Apache Mahout, Spark MLlib, Accord dot net

**Terminologies:** Artificial Learning, Deep Learning, Neural Network, Supervised Learning, Unsupervised Learning, Reinforcement Learning, Natural Language Processing