# Artificial Intelligence: Fundamentals and Applications

### Outline

- Fundamentals of Al
- Machine Learning Implementation
- Weka Demonstration
- Machine Learning Algorithms

## Fundamentals of Al

## Artificial Intelligence

The simulation of human intelligence in machines that are programmed to think like humans and mimic their actions.

Any machine that exhibits traits associated with a human mind such as learning and problem-solving.

### Al Branches

Deep learning Machine learning Supervised Content extraction Unsupervised Classification Natural language processing Machine translation Question answering Expert systems **Artificial** Text generation Planning Intelligence Image recognition Vision Machine vision Speech Speech to text Text to speech Robotics