

## Machine Learning

Artificial Intelligence (AI) is the science that make computers capable of imitating human intelligence such as decision making, text processing, and visual perception. It builds machines, which learn from experience and adjust their inputs to perform human specific tasks accordingly.

The computers are trained through processing large volume of data to simulate the logic in them. Nowadays, AI has become more popular since it automates repetitive learning and analyses the data deeper and discovers the patterns with incredible accuracy. AI is a broader field that contains several subfields such as machine learning, robotics, and computer vision.

Machine learning (ML) is a subfield of artificial intelligence which focuses on the use of data and algorithms to imitate the way that human learns and enables a computer to learn without explicit programming. To predict output values within a satisfactory range, machine learning uses designed algorithms to obtain and interpret input data through the use of statistical methods. They learn and optimise their operations as new data is fed into these algorithms to enhance performance and develop intelligence over time.

In this paper we will have a closer look at concepts of machine learning and some tools used to implement them.

**Keywords:** artificial intelligence, statistical data analysis, machine learning