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**AI**  
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# Artificial Intelligence

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# Artificial Intelligence

Software algorithms that are capable of performing tasks that normally requires human intelligence, such as visual perception, speech recognition, decision-making and language translation.

AI is an “umbrella” concept that is made up of numerous subfields, such as machine learning, which focuses on the development of programs that can teach themselves to learn, understand, reason, plan and act. (i.e. become more intelligent) when expose to new data in the right quantities.

## Course Outline:

### Chapter (1) Introduction

- What is AI?
- History of AI
- Why AI is Important?

### Chapter (2) A Deep Look at AI

- Human Intelligence vs. Artificial Intelligence
- Categories of AI
- AI in Real Life
- Demand for AI
- Programming Languages for AI

### Chapter (3) Machine Learning

- Simplifying Machine Learning
- Machine Learning Process
- Machine Learning Features
- Types of Machine Learning
- Machine Learning Terms
- Machine Learning Process and Algorithm
- Comparing ML Types
- Machine Learning Algorithms
- Who Uses Machine Learning?
- Programmer at Glance

### Chapter (4) Deep Learning

- Deep Learning in AI
- Neural Networks
- Example for Deep Learning
- Multilayer Perceptron Algorithm

### Chapter (5) Practical Applications

- RapidMiner Studio
- Application Interface
- Deep Learning Studio

### Appendixes

- Using Rapid Miner
- Creating ChatBots