

Getting Started with the Internet of Things, Artificial Intelligence and Machine Learning

Course Summary

Description

The purpose of this course is to provide a high-level overview of the Internet of Things, Artificial Intelligence, and Machine Learning for a wide audience. The course introduces each and shows how they work together.

Topics

- Understanding the Internet of Things (IoT)
- When IoT meets Artificial Intelligence (AI)
- What is Machine Learning (ML)
- Putting it all together
- Examples to learn from
- The Challenges
- IoT Software Stacks
- The future in Cloud based Analytics, Deep Learning, True North & more

Audience

This course is designed for those wanting an overview of the Internet of Things, Artificial Intelligence, and Machine Learning.

Prerequisites

There are no prerequisites for this course.

Duration

One day

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Course Outline

- I. Understanding the Internet of Things (IoT)**
 - A. What are "things"
 - B. IoT Reference Architecture
- II. When IoT meets Artificial Intelligence (AI)**
 - A. Why is AI important in IoT context?
 - B. Applications with IoT and AI Scenarios
- III. What is Machine Learning (ML)**
 - A. Applying Machine Learning to IoT
 - B. Algorithms, Streaming
- IV. Putting it all together**
 - A. Core Elements
 - B. IoT, AI and ML
- V. Examples to learn from**
 - A. Real-world use cases of artificial intelligence with IoT
 - B. Potential future applications in industry and for consumers
- VI. The Challenges**
 - A. Security, Data Policies, Talent
- VII. IoT Software Stacks**
 - A. Constrained Devices
 - B. Gateways and Smart Devices
 - C. IoT Cloud Platform
- VIII. The future in Cloud based Analytics, Deep Learning, True North & more**