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DIGITAL INNOVATION AND TRANSFORMATION | COURSE

AI Application for Utility

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Course content

Why Attend

Course Introduction

The training course designed to help the Utility industries in the use and implementation of AI.

Despite its ubiquity and hype, as well as wide media coverage, not everyone understands what AI actually means, and it is specifically AI the capacity of machines and computers to mimic human behavior. However, underneath that big umbrella definition, are machine learning technologies and sophisticated algorithms that help machines and computers work smarter and more effectively and combined with human imagination and intervention achieve significant breakthroughs.

This training course is designed to prepare the delegates for the use of AI within the utility industry and implement tools, techniques, algorithms and software allowing for the AI implementation and upgrading Utility industry with digital twins and prepare them for the Utility demands and solutions for the future.

This training course will feature:

- AI to help transform utility operations,
- AI influence in customer relationships
- Business models change and adaptation rough AI
- AI use to manage the large and accelerating influx of distributed energy resources
- Utility industry use of AI to take advantage of customer interest in deeper engagement

Course Methodology

This training will utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes theoretical presentation of the concepts, but the emphasis will be on the exercises performed by the delegates with the guidance of the instructor. The delegates will be "learning by doing" as the course is designed for them to use the software on the real problems and real data applying each of the techniques themselves. Delivery will be by presentation, group syndicate investigations, training e-manual and interactive seminars, as well as group discussion on the results of the exercises. Delegates will be presented with a theory, as well as pseudocode and practicing solutions of the problems.

Course content

Course Methodology

Who should Attend?

This training course is suitable to a wide range of professionals but will greatly benefit:

• CEOs,

• CTOs, CIOs and Engineers,

• Data Scientists, Data Analysts,

• Statisticians and technology personnel,

• Marketing and research specialists,

• IT Engineers,

• Junior Engineers and Graduates who wish to understand the core of Business Analysis

Course Objectives

By the end of this training course, participants will be able to:

• Understand how to implement AI in Utility Industry

• Explain how to imitate human in clustering and classification

• Understand how to design a Machine Learning based applications

• Analysis and Design AI Applications

• Learning how to analyze daily business problems and create Artificial Intelligence solutions

Course outline

Day One: AI Fundamentals and Data Analysis

• Overview of AI

• AI in the Utility Industry

Course content

Course outline

- Data and AI
- Business Intelligence

Day Two: AI and the Evolution of the Utility Industry

- Evolution of the Utility Industry
- Generative AI in Utilities
- AI Fundamentals and Terminology
- AI's Impact on Business and Decision-Making
- AI Applications in Utility Industry

Day Three: Machine Learning and Intelligent Agents

- Introduction to Machine Learning
- Classification and Clustering
- Artificial Neural Networks
- Logic Reasoning and AI
- Unification and Deduction Processes

Day Four: AI for Operational Improvement in Utilities

- Customer Experience Enhancement
- Predictive Maintenance
- Risk Detection and Mitigation
- Regulatory Compliance and Consensus
- AI for Distribution Planning

Day Five: AI for Sustainable Energy Management

Course content

Course outline

- Integrating Alternative Energy Sources
- AI in Solar Energy
- AI in Wind Energy
- AI in Biomass Energy
- Energy Savings and Efficiency

Seminar dates

Available seminar dates

Live dates and pricing for AI Application for Utility generated from the course details page.

Date	Location	Format	Fee
15 - 19 June 2026	Frankfurt - Germany	Classroom	**€3,250.-**
20 - 24 July 2026	Rome - Italy	Classroom	**€4,250.-**
3 - 7 August 2026	Kuala lumpur - Malaysia	Classroom	**€2,250.-**
7 - 11 September 2026	Barcelona - Spain	Classroom	**€3,850.-**
12 - 16 October 2026	London - U.K	Classroom	**€4,200.-**
9 - 13 November 2026	Munich - Germany	Classroom	**€3,450.-**
14 - 18 December 2026	Rome - Italy	Classroom	**€4,250.-**

Live online option	Online delivery is available at €1,850.-.