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Global Learning for Operational Leaders



DIGITAL INNOVATION AND TRANSFORMATION | DIT-019

Artificial Intelligence (AI) in Real Estate Development and Facilities

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Course content

Why Attend

Real estate and facilities teams generate data constantly, from building management systems, IoT sensors, work orders, occupancy and leasing systems, yet decisions on maintenance, energy, space and new developments are still often made reactively or on instinct. This Aractech course shows where AI genuinely adds value across the property lifecycle and how to introduce it without losing control of cost, privacy or accountability.

The five days follow the asset from development to operation: AI-assisted market and feasibility analysis for new projects, portfolio and investment decision support, predictive maintenance for HVAC, lifts, pumps and electrical systems connected to CMMS, and smart-building use of BMS data, digital twins and occupancy analytics to cut energy use and improve the occupant experience. The final day covers data quality, cybersecurity, vendor selection, human oversight and how to measure return on investment.

Course Methodology

- Instructor-led sessions on each stage of the property lifecycle
- Demonstrations of AI tools for analysis, maintenance and building performance
- Daily case studies and workshops on development, maintenance and smart-building scenarios
- Group evaluation of AI use cases by value, data readiness and risk
- Capstone AI implementation roadmap for each participant's portfolio or facility

Course Objectives

- Map AI opportunities across development, investment, property management and facilities operations
- Apply AI-assisted analysis to market research, feasibility studies and development planning
- Design a predictive maintenance workflow linked to building assets and CMMS
- Use occupancy and space data to improve workplace planning and portfolio decisions
- Identify AI-driven energy and HVAC optimisation opportunities
- Explain the role of BMS, IoT, digital twins and computer vision in smart buildings



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Target Audience

- Real estate development and project managers
- Property, asset and portfolio managers
- Facilities and building operations managers
- Real estate investment professionals

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Course outline

Detailed course outline

Day-by-day outline for Artificial Intelligence (AI) in Real Estate Development and Facilities.

Day 1 - AI Applications Across the Real Estate and Facilities Lifecycle

• 09:00-09:39 | Understanding artificial intelligence, machine learning, generative AI, predictive analytics, and computer vision in a property context

• 09:39-10:18 | Mapping AI opportunities across real estate development, investment, asset management, property management, and facilities operations

• 10:18-10:57 | Identifying data sources including property systems, maintenance records, BMS, IoT sensors, occupancy systems, financial data, and external market information

• 10:57-11:00 | Understanding how AI converts property and operational data into predictions, recommendations, automation, and decision support

• 11:00-11:30 | Coffee break

• 11:30-12:05 | Understanding how AI converts property and operational data into predictions, recommendations, automation, and decision support (continued)

• 12:05-12:43 | Evaluating AI use cases according to business value, data availability, implementation complexity, operational impact, and risk

• 12:43-14:00 | Practical exercise: Building an AI opportunity map for a real estate portfolio or facilities management operation



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Day 2 - AI for Real Estate Development, Investment and Portfolio Decisions

• 09:00-09:39 | Applying AI-assisted research to market analysis, location assessment, property demand, and development opportunities

• 09:39-10:18 | Using predictive analytics and scenario modelling to support feasibility studies and development planning

• 10:18-10:57 | Applying AI to property portfolio analysis, asset performance monitoring, and investment decision support

• 10:57-11:00 | Using generative AI to analyze development documents, reports, proposals, contracts, and project information

• 11:00-11:30 | Coffee break

• 11:30-12:05 | Using generative AI to analyze development documents, reports, proposals, contracts, and project information (continued)

• 12:05-12:43 | Exploring AI applications in construction progress monitoring, project risk identification, cost information, and development reporting

• 12:43-14:00 | Case study: Evaluating a real estate development opportunity using AI-supported market, financial, operational, and risk information



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Day 3 - Predictive Maintenance and Intelligent Facilities Management

• 09:00-09:34 | Moving from reactive and preventive maintenance toward predictive and condition-based maintenance strategies

• 09:34-10:08 | Using equipment history, sensor data, alarms, work orders, and failure patterns to identify maintenance requirements

• 10:08-11:00 | Understanding AI applications for HVAC, electrical systems, lifts, pumps, and other critical building assets

• 11:00-11:30 | Coffee break

• 11:30-11:45 | Understanding AI applications for HVAC, electrical systems, lifts, pumps, and other critical building assets (continued)

• 11:45-12:19 | Connecting AI analytics with Computerized Maintenance Management Systems (CMMS) and facilities management workflows

• 12:19-12:53 | Applying generative AI to maintenance records, work-order summaries, troubleshooting knowledge, and facilities documentation

• 12:53-14:00 | Practical workshop: Designing an AI-enabled predictive maintenance workflow for critical building equipment



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Day 4 - Smart Buildings, Energy Optimization and Occupant Experience

• 09:00-09:49 | Integrating AI with Building Management Systems (BMS), IoT devices, smart meters, sensors, and connected building infrastructure

• 09:49-10:38 | Using occupancy analytics to improve space utilization, workplace planning, cleaning schedules, and building services

• 10:38-11:00 | Applying AI to energy consumption analysis, HVAC optimization, demand patterns, and building performance improvement

• 11:00-11:30 | Coffee break

• 11:30-11:57 | Applying AI to energy consumption analysis, HVAC optimization, demand patterns, and building performance improvement (continued)

• 11:57-12:46 | Understanding digital twins and their role in monitoring, simulation, asset information, and facilities decision-making

• 12:46-13:11 | Exploring computer vision and intelligent monitoring applications while considering privacy and appropriate controls

• 13:11-14:00 | Case study: Developing an AI-supported smart building strategy for energy efficiency, space utilization, and occupant experience



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Day 5 - AI Governance and Implementation for Real Estate and Facilities

• 09:00-10:00 | Assessing data quality, interoperability, system integration, and information ownership before implementing AI solutions

• 10:00-11:00 | Managing privacy, cybersecurity, access controls, sensitive building information, and third-party technology risks

• 11:00-11:30 | Coffee break

• 11:30-12:00 | Evaluating AI vendors and solutions based on business requirements, integration capability, scalability, transparency, and total cost

• 12:00-12:30 | Establishing human oversight and validation for AI-generated predictions, recommendations, and operational decisions

• 12:30-13:00 | Measuring AI performance through maintenance cost, downtime, energy consumption, space utilization, service response, tenant experience, and return on investment

• 13:00-14:00 | Capstone exercise: Developing an AI Implementation Roadmap for Real Estate Development and Facilities covering priority use cases, required data, technology integration, governance, KPIs, and expected business value



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Seminar dates

Available seminar dates

Live dates and pricing for Artificial Intelligence (AI) in Real Estate Development and Facilities generated from the course details page.

Date	Location	Format	Fee
9 - 13 November 2026	Amsterdam	Classroom	**€2,830**
14 - 18 December 2026	Istanbul	Classroom	**€1,978**
18 - 22 January 2027	Rome	Classroom	**€3,460**
15 - 19 February 2027	Kuala lumpur	Classroom	**€1,925**
15 - 19 March 2027	Barcelona	Classroom	**€2,815**
19 - 23 April 2027	London	Classroom	**€2,315**
17 - 21 May 2027	Geneva	Classroom	**€4,315**
21 - 25 June 2027	Amsterdam	Classroom	**€2,830**
19 - 23 July 2027	Istanbul	Classroom	**€1,978**
16 - 20 August 2027	Rome	Classroom	**€3,460**



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18 - 22 October 2027	Barcelona	Classroom	**€2,815**
15 - 19 November 2027	London	Classroom	**€2,315**
20 - 24 December 2027	Geneva	Classroom	**€4,315**
9 - 13 November 2026	Online / Live	Online / Live	**€1,815**
14 - 18 December 2026	Online / Live	Online / Live	**€1,815**
18 - 22 January 2027	Online / Live	Online / Live	**€1,815**
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21 - 25 June 2027	Online / Live	Online / Live	**€1,815**
19 - 23 July 2027	Online / Live	Online / Live	**€1,815**
16 - 20 August 2027	Online / Live	Online / Live	**€1,815**
20 - 24 September 2027	Online / Live	Online / Live	**€1,815**
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