



London TDM

# Artificial Intelligence and Data Science Training Courses

**Course Venue:** United Arab Emirates - Dubai

**Course Date:** From 26 October 2025 To 30 October 2025

**Course Place:** Downtown Dubai

**Course Fees:** 5,000 USD

## Introduction

The "AI in Smart Cities and Urban Planning" course offers an in-depth exploration of how artificial intelligence technologies are reshaping urban environments. Participants will gain insights into AI applications in infrastructure, sustainability, governance, and citizen interaction, thereby enhancing their ability to contribute effectively to the development of smarter cities.

## Objectives

- Understand the fundamentals of smart cities and AI integration
- Learn about AI's role in urban infrastructure management
- Explore AI-driven solutions for sustainable city growth
- Examine the ethical considerations of AI in urban planning
- Develop strategies for implementing AI solutions in smart cities

## Course Outlines

### Day 1: Introduction to Smart Cities and AI

- Overview of smart city concepts and components
- The role of AI in modern urban environments
- Key technologies enabling smart cities
- Case studies: Successful smart city implementations
- Challenges and opportunities in AI-driven urban planning

### Day 2: AI in Urban Infrastructure

- AI applications in transportation systems
- Managing energy and water resources with AI
- Smart grids and AI-based utilities management
- Infrastructure monitoring and predictive maintenance
- Data analytics for improving urban infrastructure

### Day 3: Sustainability and Environmental Impact

- AI for reducing urban carbon footprints
- Sustainable city planning through AI insights
- AI in waste management and recycling practices
- Climate resilience and adaptation with AI technologies
- Monitoring and enhancing biodiversity in urban areas

### Day 4: AI in Governance and Citizen Engagement

- AI for smart governance and decision-making
- Enhancing public services through AI solutions
- Engaging citizens via AI-driven platforms
- Addressing privacy concerns and ethical AI usage
- Improving public safety with AI technologies

## **Day 5: Implementing AI in Smart Cities**

- Developing AI strategies for urban planning
- Building partnerships for smart city initiatives
- Funding and investment opportunities for AI projects
- Evaluating and measuring success in AI implementations
- Future trends and the evolution of AI in urban environments