Advanced Urban Intelligence and Smart Services with AI Training Course



14 - 18 Dec 2026

Paris

5800 € (Per Person)

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Course Introduction / Overview:

This training course is designed to provide a comprehensive understanding of how artificial intelligence is transforming urban landscapes and public services. As cities grow in population and complexity, the need for intelligent, data-driven solutions becomes critical for addressing challenges like traffic congestion, energy management, and public safety. This program goes beyond a theoretical overview and offers practical insights into the application of AI, machine learning, and the Internet of Things (IoT) in developing sustainable and efficient urban systems. Drawing on the work of academics like Sirajuddin Ahmed and S. M. Abbas from their book "Smart Cities and Innovative Urban Technologies," this course explores how cutting-edge technologies are reshaping everything from transportation to waste management. Participants will learn to leverage AI to create responsive, citizen-centric services, optimize resource allocation, and build resilient urban infrastructure. BIG BEN Training Center has designed this curriculum to be highly interactive, focusing on real-world case studies and hands-on projects. It gives participants the skills to implement smart city initiatives, from predictive maintenance and traffic optimization to enhancing public safety and energy grids. The course is a vital resource for anyone looking to lead the next wave of urban innovation and contribute to building more livable and sustainable communities.

Target Audience / This training course is suitable for:

- Urban planners and city managers.
- Government officials and public policy professionals.
- Civil and electrical engineers.
- IT professionals, data analysts, and AI developers.
- Technology consultants.
- Urban designers and architects.
- Sustainability and environmental managers.

Target Sectors and Industries:

- Government and public administration.
- Urban and regional planning.
- Transportation and logistics.
- Utilities and energy sectors.
- Real estate and property management.
- Smart technology development.
- Engineering and construction.

Target Organizations Departments:

- Public works and infrastructure.
- Urban planning and development.
- Information technology and data analytics.
- Environmental services and sustainability.
- Transportation and traffic management.
- Public safety and emergency response.
- Urban design and architecture.

Course Offerings:

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

- Formulate a strategic vision for integrating AI into urban infrastructure.
- Develop and apply predictive models for traffic flow and public service demand.
- Implement AI-driven solutions for optimizing energy consumption and smart grid management.
- Design intelligent systems for waste management, water quality monitoring, and environmental sustainability.
- Utilize machine learning for predictive maintenance of city assets and infrastructure.
- Analyze and address ethical considerations and data privacy issues in smart city applications.
- Enhance public safety through AI-powered surveillance and emergency response systems.

Course Methodology:

BIG BEN Training Center believes that learning is most effective when it is practical, engaging, and collaborative. Our methodology for this training course is built on a blend of interactive techniques designed to deepen participants' understanding and equip them with actionable skills. The course features case studies of successful smart city projects from around the world, allowing participants to analyze real-world challenges and solutions. We incorporate group discussions and teamwork to foster a collaborative learning environment, encouraging participants to share insights and perspectives. Hands-on exercises and simulations are a core component, giving participants the chance to apply AI concepts to practical scenarios. These activities include working with data sets to build predictive models, prototyping smart service solutions, and designing AI governance frameworks. Additionally, the course includes expert-led presentations, question-and-answer sessions, and peer feedback to ensure a comprehensive and well-rounded learning experience. This approach ensures that participants leave not just with knowledge, but with the confidence to implement intelligent urban systems in their own professional contexts.

Course Agenda (Course Units):

Unit One: Foundations of Urban Intelligence

- Introduction to AI in smart services.
- Data-driven urban planning.
- The Internet of Things (IoT) in city infrastructure.
- AI for sustainable urban development.
- The digital twin concept for cities.
- Citizen engagement through intelligent platforms.
- Emerging technologies and future trends.

Unit Two: Smart Mobility and Transportation Systems

- AI-powered traffic management.
- Predictive analytics for public transit.
- Autonomous vehicles and urban integration.
- Intelligent transportation infrastructure.
- Ride-sharing optimization and mobility as a service.
- Smart parking and congestion management.
- Sustainable mobility solutions.

Unit Three: Intelligent Utilities and Environmental Management

- AI-driven smart grids and energy optimization.
- Predictive maintenance for public utilities.
- Intelligent waste collection and resource management.
- AI for air and water quality monitoring.
- Climate change modeling and urban resilience.
- Renewable energy integration in city planning.
- Sensor networks and real-time environmental data.

Unit Four: AI for Public Safety and Security

- AI in crime prediction and prevention.
- Intelligent surveillance systems and facial recognition.
- Emergency response optimization with data analytics.
- Disaster management and risk assessment.
- Cybersecurity for smart city infrastructure.
- Ethical considerations of public safety technologies.
- Public safety data integration.

Unit Five: Governance, Ethics, and The Future of Smart Cities

- Data governance frameworks for urban intelligence.
- Ethical AI design and implementation.
- Privacy and security in smart services.
- Public policy and regulatory challenges.
- Funding models for intelligent urban projects.
- The future of urban life with AI.
- Building an inclusive and equitable smart city.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can city planners and technology developers ensure that AI solutions for urban services do not exacerbate social inequalities or create new forms of digital exclusion?

What unique qualities does this course offer compared to other courses?

This training course distinguishes itself by offering a holistic, forward-thinking curriculum that goes beyond technical skills. While many programs focus on a single aspect of AI or specific technology, this course provides an integrated perspective on building future-proof urban ecosystems. We emphasize the critical link between technology and policy, teaching participants not only how to implement AI solutions, but also how to navigate the complex ethical, governance, and social issues that come with them. Our unique focus on practical application ensures that participants work with real-world data and case studies, allowing them to develop solutions for actual urban challenges. Instead of simply discussing AI tools, we focus on the strategic insights and innovative problem-solving needed to lead urban transformation. The course is designed to create leaders who can think critically about how AI can be used to improve quality of life, promote sustainability, and foster a more equitable urban environment. This approach is what sets BIG BEN Training Center apart and makes this program an indispensable investment for professionals aiming to shape the future of cities.