Training Course:
Smart Population Management: Using AI and
Data Analytics

29 September - 3 October 2025
Casablanca (Morocco)
New Hotel

Training Course code: SC235900 From: 29 September - 3 October 2025 Venue: Casablanca (Morocco) - New Hotel
Training Course Fees: 4900 Euro

Introduction:

The management of population dynamics in urban and rural environments has become increasingly complex in the era of big data and artificial intelligence AI. From managing growth, migration, and aging populations to optimizing resource distribution, technology has opened new avenues to enhance the efficiency and effectiveness of population management strategies.

This training program, designed by Global Horizon Training Center, aims to equip professionals with the knowledge and skills needed to harness the power of AI and data analytics for smart population management. Participants will learn how to leverage predictive analytics, machine learning, and AI tools to enhance decision-making, improve urban planning, and create more sustainable and inclusive population management systems.

Objectives:

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

- Understand the fundamentals of AI, machine learning, and data analytics in the context of population management.

- Explore the role of AI and data analytics in predicting and managing population growth, migration patterns, and demographic shifts.

- Gain practical experience with AI tools and data analytics software for analyzing and interpreting demographic data.

- Apply data-driven decision-making approaches to optimize resource distribution, urban planning, and social services.

- Understand how to integrate AI and data analytics with existing population management policies and frameworks.

- Develop strategies for implementing smart population management solutions in government agencies, NGOs, and other organizations.

Organizational Impact:

Organizations participating in this training will benefit from:

- Improved capacity to use AI and data analytics to make evidence-based population management decisions.

- Enhanced ability to predict and prepare for demographic changes, reducing risks and optimizing resource allocation.

- Stronger data-driven approaches to urban planning, healthcare, education, and social welfare.

- Increased efficiency in managing migration, aging populations, and other demographic shifts.

- Better alignment with modern technologies, ensuring the organization stays competitive and innovative in population management.

Target Audience:

This program is ideal for:

- Government officials and policy makers in charge of population planning and management.

- Urban planners and city development experts.

- Data analysts and AI specialists working in the demographic or social sector.

- Healthcare administrators and public health professionals dealing with population health data.

- Professionals from NGOs, international organizations, and development agencies focused on population management.

- Academics and researchers interested in the intersection of AI, data analytics, and demographic studies.

Outlines:

Day 1: Introduction to Smart Population Management and AI

- Overview of population management and its challenges in the modern world

- Introduction to AI, machine learning, and data analytics: concepts and definitions

- The role of AI and data analytics in shaping demographic policies

- Key technologies and tools for smart population management

- Case study: AI applications in migration forecasting and aging population management

Day 2: Data Collection and Integration for Population Management

- Understanding data sources: census data, health records, social media, IoT sensors, and government databases

- Data collection strategies: ensuring data quality, privacy, and security

- Integrating diverse datasets for comprehensive population analysis

- Introduction to big data technologies e.g., Hadoop, Spark and their applications in population studies

- Case study: Integrating population data to optimize urban infrastructure and services

Day 3: Predictive Analytics and Machine Learning in Population Management

- Introduction to predictive analytics: concepts and techniques

- Machine learning models for predicting demographic trends e.g., migration, fertility rates, aging

- Using AI algorithms for resource allocation and social service optimization

- Hands-on practice with AI tools and machine learning algorithms Python, R, or TensorFlow

- Case study: Predicting healthcare needs and aging population challenges with machine learning

Day 4: Data Visualization and Decision-Making Tools for Smart Management

- Best practices for visualizing demographic data and AI predictions

- Tools and platforms for data visualization e.g., Tableau, Power BI, Google Data Studio

- Interactive dashboards for real-time decision-making in population management

- Analyzing the impact of policy changes using data visualization

- Case study: Data-driven decision-making in public health and urban development

Day 5: Implementing Smart Population Management Solutions

- Developing strategies for integrating AI and data analytics into population management policies

- Creating smart cities with AI: applications in housing, transportation, and public services

- Ethical considerations: AI bias, privacy issues, and inclusivity in population management

- Designing an AI-powered population management framework for your organization

Registration form on the Training Course:
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