

Big Data, AI, and Decision Intelligence for Health Administration

COURSE OVERVIEW

This course explores the role advanced data analytics, artificial intelligence and decision intelligence frameworks plays in transforming modern healthcare management. The course covers key concepts such as predictive analytics, machine learning in health systems, data governance, ethical AI and digital transformation strategies tailored for healthcare environments. Participants will gain insights into leveraging big data technologies to improve operational efficiency, enhance patient outcomes and support evidence base decision making. Through interactive sessions, actual case studies and practical exercises, participants will also learn to design data driven strategies that optimize clinical, administrative and financial performance.

WHO SHOULD ATTEND?

This course is designed for healthcare administrators, hospital managers, policy makers, data analysts, IT professionals in health institutions and decision makers seeking to integrate data analytics and AI tools into their operations. It is also valuable for public health professionals, consultants and researchers aiming to strengthen their strategic and analytical competencies in the rapidly evolving digital health landscape.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Understand the fundamentals of big data analytics and AI applications in healthcare.
- Apply decision intelligence models to improve health system management and policy formulation.
- Evaluate data governance, privacy, and ethical considerations in AI-driven healthcare solutions.
- Use predictive analytics and data visualization to support strategic and clinical decisions.
- Develop frameworks for implementing AI and data-driven innovation in healthcare organizations.
- Leverage real-time data insights to enhance operational efficiency and patient outcomes.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- The role of decision intelligence in enhancing healthcare policy and administration efficiency.
- How big data analytics supports improved patient care and health outcomes.
- Use of AI for predictive health risk assessment and personalized treatment plans.
- Optimization of hospital operations and resource management through real-time data.
- Integration of big data with electronic health records for better clinical decision-making.
- Early detection and management of chronic diseases using data insights.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded