IIHMR UNIVERSITY

Online Certificate Programmes

Artificial Intelligence for Healthcare Managers

Leading AI-Driven Transformation in Healthcare



Background

Artificial Intelligence (AI) is transforming healthcare by enhancing clinical decision-making, optimizing hospital operations, improving patient outcomes, and enabling data-driven management. From predictive analytics and clinical decision support systems to operational automation and intelligent diagnostics, AI has become an integral component of modern healthcare delivery.

Healthcare organizations today are increasingly adopting AI-enabled technologies; however, many hospital managers and healthcare leaders lack the technical understanding required to evaluate AI solutions, interpret analytical outputs, or lead AI implementation initiatives. As AI adoption accelerates across hospitals and health systems, there is an urgent need to develop managerial competencies that bridge healthcare administration, digital technologies, and responsible AI governance.

This Management Development Programme is designed to equip healthcare professionals with practical knowledge of Artificial Intelligence, Machine Learning, healthcare data analytics, and AI governance, enabling them to confidently lead digital transformation initiatives within their organizations.

Objectives

The programme aims to:

- Understand the fundamentals of Artificial Intelligence and Machine Learning in healthcare.
- Develop basic programming and healthcare data analytics skills using Python.
- Explore AI applications in clinical decision support, diagnostics, and hospital operations.
- Learn how predictive analytics improves patient care and operational efficiency.
- Evaluate AI-enabled healthcare solutions and vendor proposals.

Course Contents

- Fundamentals of Artificial Intelligence in Healthcare
- Python Programming for Healthcare Analytics
- Machine Learning Concepts and Healthcare Applications
- Healthcare Data Analytics and Visualization
- Clinical Decision Support Systems (CDSS)
- Predictive Analytics for Hospital Operations
- AI in Medical Imaging and Diagnostics
- AI Ethics, Algorithmic Bias and Fairness

Pedagogy

The programme adopts an application-oriented learning approach combining conceptual understanding with hands-on practice.

Participants will work with synthetic healthcare datasets based on Indian healthcare systems, enabling practical exposure without requiring prior programming experience.

Programme Duration

Duration: 3 Months (12 Weeks)

Learning Hours:

- 24 Hours Online Instructor-led Sessions
- 24 Hours Guided Self-learning

Credits: 3 Credits

Mode: Live Online (Faculty-led sessions with hands-on practical learning)

Programme Highlights

- Hands-on Python programming
- Machine Learning using healthcare datasets
- Clinical AI applications
- AI governance and ethics
- Real healthcare case studies
- Browser-based Jupyter Notebook practice
- No prior coding experience required
- Capstone implementation project

Who Should Attend?

This programme is ideal for:

- Hospital Administrators and Medical Superintendents
- Hospital CEOs, COOs and Senior Managers
- Healthcare Quality and Operations Managers
- Medical Directors and Clinical Leaders
- Digital Health and Health Informatics Professionals
- IT Managers and Digital Transformation Leaders
- Healthcare Consultants
- Public Health Professionals
- MBA (Hospital & Health Management), MHA and MPH Graduates
- Healthcare Entrepreneurs
- Faculty Members and Researchers interested in Healthcare AI

Programme Coordinator



Dr. Aditya Saxena
Associate Professor
IIHMR University, Jaipur

The programme will be offered by a team of national and international subject experts.

Registration

For programme schedule, fee details, and registration, please contact:

Office of Online Certificate Programmes (OCP)
IIHMR University
1, Prabhu Dayal Marg, Sanganer Airport
Jaipur – 302029, Rajasthan, India
Mobile: +91 9116006536 | Tel: +91-141-3924700
Email: Onlinecertificate@iihmr.edu.in

Assessment

Participants will be evaluated through:

- Module Quizzes
- Practical Notebook Assignments
- Group Activities and Case Discussions
- Capstone Project

Certificate

Participants successfully completing the programme and fulfilling the attendance and assessment requirements will receive a Certificate of Completion from IIHMR University, Jaipur.

Eligibility

Graduate in any discipline.
Healthcare, hospital management, public health, IT, or management experience is desirable. No prior programming knowledge is required.

Programme fee

The programme fee for Indian participants is Rs. 30,000 plus GST (18% as applicable), and for international participants it is USD 315 plus GST (18% as applicable). The programme fee covers tuition, background reading material, lodging, and boarding.

Discounts on Fee

- **Early Bird Discount:** Nominations received with payment before four weeks of the commencement of the programme will be entitled to a 10% early bird discount.
- **Group Discount:** Any organization sponsoring four or more participants to the programme will be entitled to a 20% discount on the total fee payable, provided that at least four participants attend the programme.
- **Maximum Discount:** Organizations can avail themselves of both discounts, subject to a maximum discount of 20%.



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