IIHMR UNIVERSITY

Management Development Programme on
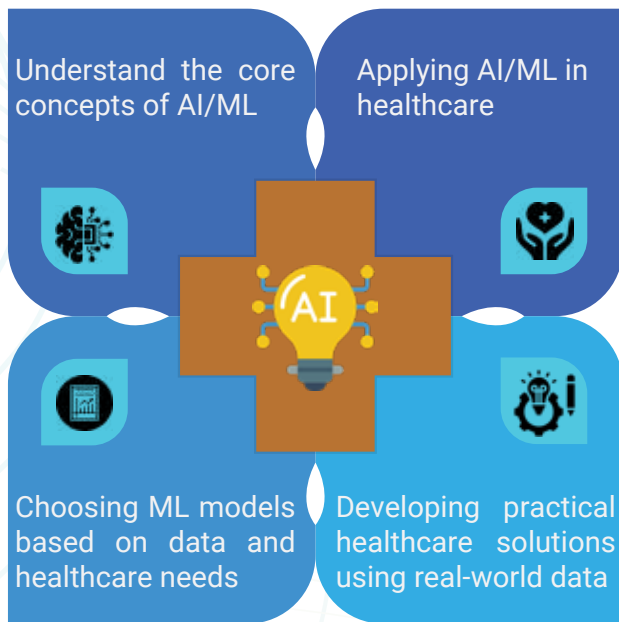## AI and Machine Learning in Healthcare

December 16-20, 2024

Background

The healthcare industry is undergoing a transformative shift, driven by the integration of Artificial Intelligence (AI) and Machine Learning (ML). These technologies are revolutionizing patient care, diagnostics, treatment planning, and operational efficiency. However, their successful implementation in healthcare requires more than just technological tools; it demands a deep understanding of AI and ML concepts, practical skills in applying these technologies. As healthcare systems face increasing pressures to improve outcomes and reduce costs, AI and ML offer powerful solutions. Yet, there is a significant gap in knowledge and skills among healthcare professionals, academicians, and researchers regarding these technologies.

Objectives

The objectives of the programme are as follows:

- Understand the core concepts of AI/ML
- Applying AI/ML in healthcare
- Choosing ML models based on data and healthcare needs
- Developing practical healthcare solutions using real-world data

Content

The programme contents are as follows:

- Fundamentals of AI and ML in Healthcare
- Introduction to Machine Learning Algorithms
- Supervised Learning Techniques
- Model Evaluation and Validation
- Approach to Choosing the ML Model
- Unsupervised Learning Techniques
- Advanced Unsupervised Learning Models

Pedagogy

The programme pedagogy combines theoretical knowledge with hands-on training using tools like Google Colab and Orange, enabling participants to preprocess data, select appropriate ML models, and analyse healthcare datasets effectively. The participants will be equipped to apply AI and ML to real-world healthcare challenges. The participants are immersed in a dynamic learning environment designed to foster theoretical understanding, actionable insights, and practical skills.

Who is Right for the Programme?

1. Healthcare Professionals and healthcare administrators looking to integrate AI and ML into clinical practices and healthcare management.

2. Faculty members, PhD students, and researchers in healthcare, biomedical engineering, and data science who are interested in applying AI and ML in their research and teaching.

3. Data scientists, analyst, and professionals working with healthcare data

4. IT managers, software developers, and system integrators in the healthcare industry

5. Individuals involved in policy planning, and programme management

6. Public health professionals focused on population health, epidemiology, and public health

Resource Persons

The programme is offered by a team of resource persons including academicians, researchers and subject experts. They include:

Dr. Swapnil Gadhave, PhD
Assistant Professor and Programme Coordinator, IIHMR University, Jaipur

Dr. Ritu Vashistha, PhD
Assistant Professor, IIHMR University, Jaipur

The national and international resource persons will be engaged in delivering the programme.

Certification

IIHMR University, Jaipur, will issue a certificate of participation on completion of the programme.

Dates

The programme will start on Monday, December 16, 2024, and conclude on Friday, December 20, 2024. The participants are advised to schedule their check-in on the evening of Sunday, December 15, 2024, and check-out on the morning of Friday, December 20, 2024.

Nominations/Registration

Please send your nominations/registrations to the following address:

📍 Programme Officer (Training)
IIHMR University
1, Prabhu Dayal Marg, Sanganer Airport,
Jaipur-302029, Rajasthan, India

Venue

The programme will be organized at IIHMR University, 1, Prabhu Dayal Marg, Near Sanganer Airport, Jaipur – 302 029, Rajasthan. The University campus provides a learning environment for the participants, who are welcome to use the library and recreational facilities at the campus.

Programme Fee

The fee for the Indian participants is INR 41,250 plus GST (18% as applicable), and for international participants, it is USD 770 plus GST (18% as applicable). The fees include tuition, background reading material, programme kit, stay, breakfast, lunch, dinner, and tea/coffee during the programme.

Discounts on Fee

1. Early Bird Discount: Nominations received with payments before four weeks will be entitled to a 10% early bird discount.

2. 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.

3. Maximum Discount: Organizations can avail themselves of both the discounts subject to a maximum discount of 20%.

☎ +91-141-3924700
✉ training@iihmr.edu.in