AI in Healthcare course in association with Neotia Skill Development Academy

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Artificial Intelligence (AI) has the potential to revolutionize the healthcare industry by improving patient outcomes, reducing costs, and increasing efficiency. **As AI technology continues to advance**, **it is becoming increasingly important for doctors and healthcare professionals to understand its applications and limitations**.

AI can help improve the accuracy and speed of diagnosis by analyzing patient data such as medical history, test results, and imaging scans. This also helps prevent health problems from developing or worsening, and reduce the need for hospitalization. AI can be applied to a wide range of healthcare tasks, including medical imaging analysis, drug development, patient monitoring, and personalized treatment plans.

The aim is to equip healthcare professionals with a foundational understanding of AI and its applications in healthcare, *to have understanding of various AI tools* that can be used for healthcare analytics so that decision-making becomes fast, and evaluation of AI applications such that AI implementation in healthcare is facilitated, as well as for medical professionals on how they can make research efficiently, present better, and how the use of AI in day-to-day medical functions of doctors can professionally enhance their output.

This course has been designed as an Upskilling program for healthcare professionals, **IT professionals**, **and even freshers who wish to make a career in AI implementation in healthcare**.

The course is approved by Healthcare Sector Skill Council, MSDE, Govt. of India and certification will be by them.

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FOUNDATION COURSE ON
AI IN HEALTHCARE

Opportunity to Introduce AI and scale up Healthcare Services

Healthcare Sector Skill Council

Under Competency Enhancement Program

Value Proposition

- 32 hours of intensive training

- Online mode of delivery

- Delivered using relevant case studies featuring AI in healthcare to illustrate the key concepts and how AI-based medical technology can be used to improve health outcomes and streamline clinical workflows, patient interactions, etc.

- Not a technology dev and tool driven program but focused on usage of the technology for better services

- It's not an awareness level program, but a foundation course such that healthcare professionals can reorient themselves and bring changes in the way they deliver healthcare services.

Certification By

Healthcare Sector Skill Council, NSDC, Ministry of Skill Development and Entrepreneurship, Govt of India

Why Join this program

➤ As a doctor or healthcare professionals get grounded understanding of the potential for AI innovations in the healthcare industry.

➤ Explore the types of AI technology, its applications, limitations, and industry opportunities.

➤ Have in-depth understanding of the evolving paradigm of healthcare data analytics using AI tools that can significantly make healthcare establishments provide better services and trigger business transformation.

➤ Adequately equip as healthcare professionals for use of AI in their healthcare decision system

➤ To examine the use of AI in diagnosis, patient monitoring, and care, and explore how it can enhance healthcare data management

➤ Understand the practical adoption challenges of AI in hospital process & resource management.

➤ To prepare physicians, physician assistants, medical students, nurse practitioners, and veterinarians to lead their respective service domains more professionally with better productivity in the era of digital medicine.

➤ Appreciate the need for transforming how patients receive quality care while mitigating costs and improving health outcomes

AmbujaNeotia

Neotia Skill Development Academy

Healthcare Sector Skill Council

Who Can Join

- Physicians, Clinicians, Medical Students, and other healthcare professionals including professors

- IT professionals who wish to make career in Healthcare data analytics

- M. Pharma/ PhD / medical trainers

- Open to physician assistants, medical students, nurse practitioners, and veterinarians

- Tech students who wish to build their career in AI domain application for healthcare industry

  Age - No bar

Other Requirement

No prior knowledge of any tech tools required. Basic digital literacy, process orientation and analytics.

Training Methodology

- The program will be delivered by experienced trainers with Data science background, Exposure to business application of AI in healthcare and Healthcare Data Analytics tools.

- The program is also be backed by Ambuja Neotia Healthcare Ventures as Industry Partner. Group has multi-speciality Hospitals. Trainers have strong data analytics and AI background of running similar programs

- Will cover practical topics of modern workflows, patient interactions, as well as legal, ethical, and logistical concerns specific to the use of clinical AI with relevant case studies

- Extensive content to be provided in the LMS platform

- Projects, demo and assignments

What will be covered

➤ Introduction to Artificial Intelligence and Big Data Analytics

➤ Introduction to AI Tools in the context of healthcare and clinical data
  - Understanding of Healthcare and Clinical data in the context of AI Tools
  - Definition of AI and its subfields
  - AI in healthcare: current state & prospects
  - Benefits and challenges of AI in healthcare
  - Ethical and legal considerations of AI in healthcare

➤ Fundamentals of machine learning for healthcare
  - Introduction to machine learning in AI context
  - Supervised and unsupervised learning
  - Feature selection and engineering
  - Model selection and evaluation
  - Applications of machine learning in healthcare

➤ Evaluations of AI applications in healthcare
  - Evaluation metrics for healthcare AI applications
  - Bias and fairness in AI applications
  - Interpretability and explainability of AI models
  - Validation and verification of AI models

➤ AI in diagnosis and patient monitoring
  - AI in medical imaging, AI in pathology
  - AI in genomics, AI in patient monitoring

➤ AI in healthcare data management
  - Electronic health records and AI
  - Natural language processing in healthcare
  - Data privacy and security in healthcare

➤ Deploying AI in practice
  - Implementation of AI in healthcare
  - Integration of AI with existing healthcare systems
  - Challenges and opportunities of AI in healthcare

➤ Real-world applications of AI in medicine and challenges to address
  - Case studies of AI in healthcare
  - Future prospects of AI in healthcare
  - Capstone project and workshops to explore possibility of AI application in respective organisation

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