ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

Role of Data Science and AI in Smart Healthcare

(21st April - 5th May 2025)

Organised Under

Electronics & ICT Academy, NIT Warangal as HUB

by

Department of CSE and EEE, International Institute of Information Technology (IIIT) Bhubaneswar *Sponsored by* **Ministry of Electronics and Information Technology (MeitY), GoI**

Preamble:

"Electronics & ICT Academy – Phase II" was set up at NIT Warangal with financial assistance from MeitY, GoI. This academy's role is to offer Faculty Development Programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

About the FDP:

The FDP titled **"Role of Data Science and AI in Smart Healthcare**" focuses on integrating advancements in Data Science and Artificial Intelligence (AI) with healthcare applications. The course aims to equip participants with the tools, techniques, and methodologies essential for analyzing healthcare data, developing predictive models, and implementing AI-driven solutions. It bridges the gap between academic research and healthcare industry challenges. Participants will gain insights into modern AI methods, explore real-world healthcare use cases, and collaborate with experts to foster innovation in AI for healthcare.

Major Course Content:

1. Introduction to Data Science and AI for Healthcare
2. AI in Medical Imaging and Diagnostics
3. Predictive Analytics for Healthcare Data
4. Natural Language Processing (NLP) for Clinical Applications
5. AI for Disease Risk Prediction
6. Deep Learning Techniques for Healthcare
7. Feature Engineering in Biomedical Data
8. Ethics and Bias in AI for Healthcare
9. AI for Personalized Medicine and Treatment Planning
10. AI in Remote Monitoring and Telemedicine

Faculty Conducting This Programme:

The programme will be conducted by faculty members from NIT Warangal; academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Participants need to pay the Registration Fee Online using the following details:

Faculty and Research Scholars	Rs. 750/-
Industry Participants	Rs. 2250/-

Online Transfer Details

Account Name	: **Electronics & ICT Academy NITW**
Account No.	: **62423775910**
IFSC	: **SBIN0020149**
Bank and Branch:	**State Bank of India, NIT(REC) Warangal**

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

https://forms.gle/z8SNmhDY9UN2G4nh8

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Candidates will be issued satisfactory certificates on successful completion of the course.

Important Dates:

Last date (Application)	15.04.2025
Selection List by E- mail	18.04.2025
Duration	21.04.2025 to 05.05.2025

About NIT Warangal:

National Institute of Technology, Warangal, is the first among 17 RECs set up as a joint venture of the Government of India and the state government. Over the years, the college has established itself as a premier Institute imparting technical education of a very high standard, leading to B.Tech degrees in various branches of engineering, M.Tech., and Ph.D. programs in various specializations. All B. Tech and M. Tech programs of NIT Warangal are NBA accredited.

About IIIT Bhubaneswar:

The Government of Odisha established the International Institute of Information Technology, Bhubaneswar in 2006. It is designed to be a premier institute of Information Technology and related areas. The Institute has been converted into a unitary university by the Government of Odisha on 20th Jan 2014. IIIT Bhubaneswar offers undergraduate, postgraduate, and doctoral programs, emphasizing hands-on learning, interdisciplinary collaboration, and industry partnerships.

Dr. Sanjay Saxena	**Dr. Debani Prasad Mishra**
Assistant Professor	Assistant Professor
Department of CSE	Department of EEE
IIIT Bhubaneswar	IIIT Bhubaneswar
Odisha-751003	Odisha-751003
Email: sanjay@iiit-bh.ac.in	Email: debani@iiit-bh.ac.in
Ph. No.: +91 9839677691	Ph. No: +91 8895490012