

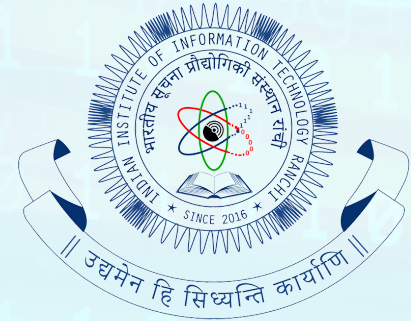


AICTE Sponsored
Faculty Development Programme
On



AI & ML for Sustainable Development: From Fundamentals to Advanced Applications

(19th December - 23rd December, 2024)



भारतीय सूचना प्रौद्योगिकी संस्थान राँची

Indian Institute of Information Technology Ranchi

(An Institute of National Importance under an Act of Parliament)



Patron

Prof. Rajeev Srivastava

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About AICTE ATAL

AICTE Training and Learning (ATAL) Academy is an initiative that aims to provide teachers with the tools they need to advance higher education objectives like access, equity, and quality. This academy was created to meet the demand for educating the next generation in the skill sector and to provide training for technicians and teachers in their respective fields. By launching initiatives such as SWAYAM, MOOCs, Prime Minister Kaushal Vikas Yojana (PMKVY), Sansad Adarsh GramYojana (SAGY), Swachh Bharat/Unnat Bharat Abhiyan, Yoga Activities, etc., AICTE is committed to the development of high-quality technical education in the nation. Faculties and students can receive training to improve their knowledge and abilities in order to become more marketable and develop global competencies. Additionally, ATAL changes them so that they can fit in with society and, most importantly, makes them excellent citizens of the nation.

About IIIT Ranchi:

Indian Institute of Information Technology Ranchi is an Institute of National Importance setup by the Ministry of Education, Government of India, and Government of Jharkhand along with three industry partners Tata Technologies Limited, Tata Consultancy Services and Central Coalfields Limited. The Institute is setup under the initiative taken by MoE, Government of India to setup 20 new Indian Institutes of Information Technology (IIITs) on a Public Private Partnership Model. IIIT Ranchi provides modern infrastructure facilities including well-equipped laboratories, library and hostel accommodations to facilitate a conducive learning environment. It serves as a catalyst for the growth of an innovative entrepreneur-focused ecosystem and industry-academia ready workforce.

FDP Objective:

The primary objective of this faculty development program is to equip educators and the faculty members of BCA/BBA/BMA in the field of Machine Learning and Artificial Intelligence with cutting-edge knowledge and practical skills in diverse application domains. By the end of the program, participants will have gained the following competencies :

- Basics of Artificial Intelligence and Machine Learning.
- Understanding recent trends and latest concepts in various domains.

- Practical sessions stating with basic implementations in python upto developing complex AI-ML algorithms. It includes Hands-on Training with Machine Learning Libraries and Frameworks
- AI-ML applications in Interdisciplinary domains such as Computer vision, NLP, stock market prediction, predictive analysis and recommendation system, business data analysis.
- Computer-Aided Design and its applications using AI-ML.
- Project development discussions and ideation for fund generation by the participants
- Future opportunities for research and innovation

Pedagogy:

Collaborative, Experiential and Outcome Based Teaching and Learning based live Sessions, Case Studies, Presentation, Videos, Research Journals/ article review discussions, debates, labs, etc.

Target Audience:

This program is open to all faculty members, Ph.D. research scholars, educators from different BCA/BBA/BMS courses. The minimum number of participants is 50 (Upper Limit 75).

Registration and Fees Details:

There is NO Registration fees to attend this FDP (offline mode only)

Applications have to apply through filling online Google form that needs to be filled latest by 30th November 2024.

<https://forms.gle/GjVTweGsAsT7QHSC6>

A confirmation mail will be sent to the shortlisted participants by 5th December 2024.

Accommodation:

The institute will provide accommodation to the participants which will be decided on first come first serve basis.

Session Plan (Offline Mode 9.00 am – 5.30 pm)

Day 1	Day 2	Day 3	Day 4	Day 5
8:30–9:00 Inauguration				
9:00 – 11:00 Session 1 Topic: Introduction to AI and ML	9:00 – 11:00 Session 3 Topic: Deep Learning	9:00 – 11:00 Session 5 Topic: AI in Finance	9:00 – 11:00 Session 7 Topic: AI in recommendati on systems	9:00 – 11:00 Session 9 Topic: AI for personalized learning, automated grading, and administrative tasks
11:00 – 1:00 Practical Session	11:00 – 1:00 Practical sess ions/Labs	11:00 – 1:00 Practical sessions/Labs	11:00 – 1:00 Practical sessi ons/Labs	11:00 – 1:00 Practical sessions/Labs
1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch
1:30 – 3:30 Session 2 Topic:Machine Learning Algorithms	1:30 – 3:30 Session 4 Topic: Applications in medical imaging, diagnostics, and personalized medicine	1:30 – 3:30 Session 6 Topic: AI in customer behavior analysis	1:30 – 3:30 Session 8 Topic: AI in inventory management	1:30 – 4:30 Session 10 Topic:Strategy development for educational resources
3:30 – 5:30 Practical sessions/Labs		3:30 – 5:30 Practical sessions/Labs		4:30 – 5:30 Valedictory Session

ORGANIZING COMMITTEE

Dr. Santosh Kr. Mahto, ECE, IIIT Ranchi
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PATRON:

Prof. Rajeev Srivastava, Director, IIIT Ranchi

RESOURCE PERSONS

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 Dr. Alekha Mishra, NIT Jamshedpur
 Dr. Shalini Mahato, NIAMT Ranchi
 Dr. Pritee Kumari, IIM Sambalpur
 Dr. Sitanshu Sekhar Sahu , BITS Mesra
 Dr. Sudhanshu Ku. Mishra, BITS Mesra
 Dr. Bharat Singh, IIIT Ranchi
 Dr. Rashmi Panda, IIIT Ranchi
 Dr. Priyank Khare, IIIT Ranchi

Venue:

Indian Institute of Information Technology Ranchi, ARTTC
 BSNL Campus, Getlatu, Near Jumar River Bridge,
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Contact Details:

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