## Registration Guidelines

Registration for the participation are invited for the two days workshop on "Artificial Intelligence and Data Science".
Registration is *absolutely free of cost* by the following link.

**https://www.aicteindia.org/atal**

*Help & Support*
**Dr. Pradeep Kothiyal**
Dean Research, JBIT Dehradun
Email. dean.research@jbitdoon.edu.in
Mobile No: 8920910081

## About the Workshop

This program aims to equip faculty members with a clear understanding of Artificial Intelligence and Data Science concepts, tools, and its applications. This programme also introduces popular platforms and languages like Python, TensorFlow, Keras, Scikit-learn, and data visualization tools. Through hands-on sessions, participants will develop, test, and deploy AI models while exploring real-world applications in healthcare, education, business analytics, and smart cities. The program encourages research, publications, and interdisciplinary projects while promoting the integration of AI and Data Science into academic curricula, in line with industry needs and NEP 2020 guidelines. Participants will gain up-to-date knowledge and practical skills in AI and Data Science, preparing them for both academic and applied projects. Faculty will be able to deliver AI and Data Science content effectively to students using innovative, application-based teaching methods. They will also be capable of guiding student projects, internships, and research activities in these domains.

The program envisions a significant increase in research publications, funded projects, and collaborations in the fields of AI and Data Science, along with the establishment of professional connections among participants and experts for future academic and research collaborations.

## INVITATION

It gives us great pleasure to extend a warm and cordial invitation to you for the Workshop on "Artificial Intelligence and Data Science," organized by the Department of Artificial Intelligence and Machine Learning at JB Institute of Technology, Dehradun, scheduled for 11$^{th}$–12$^{th}$ July 2025.

## JB Institute of Technology, Dehradun

Affiliated to VMSB Uttarakhand Technical University, Dehradun
Approved by AICTE, NewDelhi

### Two Days Offline Workshop

### "Recent Trends in Artificial Intelligence and Data Science"
11$^{th}$-12$^{th}$ July, 2025

Sponsored by AICTE under VAANI Scheme

Under the aegis of

**Organized by**
**Department of Artificial Intlligence and Machine Learning**

## About JBIT

JB Institute of Technology is a private technical institute established in 2009 in Uttarakhand. The institute is affiliated to VMSB Uttarakhand Technical University and Uttarakhand Board of Technical Education, Roorkee. It is approved by the All India Council for Technical Education (AICTE). The JBIT Dehradun campus spans 25 acres and offers a comprehensive range of facilities, including a well-stocked library, gymnasium, medical centre, hostels, sports ground, and cafeteria. The institute offers postgraduate, undergraduate, and diploma programs in engineering, and management. Over the years, it has also maintained an impressive placement record. Established in 2009, JBIT has emerged as one of the premier private engineering institutes in Uttarakhand. Nestled in the foothills of the Himalayas, the 25-acre campus is home to students from various states across India. With the globalization of the economy, the software and hardware industries are witnessing exponential growth. The software sector, in particular, has become one of the fastest-growing industries in India, driven by the country's focus on digital transformation. The Department of Computer Science & Engineering and Department of AI & ML at JBIT has been at the forefront of producing highly skilled software engineers with strong technical expertise. The department fosters innovation and encourages a broad vision among students, empowering them to thrive in the rapidly evolving software industry. The experienced faculty members guide aspiring computer engineers through a thoughtfully designed curriculum, preparing them to meet both academic and industry challenges.

## Department of AI & ML

The Department of Artificial Intelligence and Machine Learning aims to produce highly knowledgeable, competent, and resourceful young engineers equipped with effective skill sets for growth and innovation.

Artificial Intelligence and Machine Learning focus on advancing research to develop machines capable of solving problems and analyzing contradictory or ambiguous information. Core topics in this domain include AI technologies such as expert systems, fuzzy logic systems, natural language processing, speech and pattern recognition, computer vision, decision-support systems, knowledge bases, and neural networks.

Artificial Intelligence & Machine Learning are at the forefront of creating intelligent solutions for real-world challenges, driving progress across diverse sectors.

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### *Chief Patron*
**Prof. (Dr.) Onkar Singh**
Hon'ble Vice Chancellor
VMSB Uttarakhand Technical University

### *Patrons*
**Smt. Hemlata Singhal**
**Mr. Sandeep Singhal**
**Mr. Rajat Singhal**

### *Organizing Chairman*
**Prof. (Dr.) P. K. Chaudhary**
Director, JB Institute of Technology

### Organizing Secretaries
**Dr. Vishant Kumar**
Registrar, JB Institute of Technology
**Dr. Sandeep Kumar Chaudhary**
Coodinator-IQAC, JB Institute of Technology

### Coordinator
**Dr. Pradeep Kothiyal**
Dean Research, JB Institute of Technology

### Co-coordinator
**Dr. Vinay Avasthi**
Head, Dept. of AI & ML
JB Institute of Technology

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## Organising Committee

- Dr. Bharat VPS Rawat
- Mr. Manoj Kumar Chaudhary
- Mr. Deepak Aggarwal
- Mr. Suraj Sinha
- Mr. Santosh Kumar Mishra
- Mohammad Imran Khan
- Mr. Sumit Kumar
- Mr. Wajahat Gh Mohd
- Mr. Shivam Pandey
- Ms. Arshi Khan

## Resource Persons

Eminent Professors from premier institutions such as IITs, NITs, Central & State Universities and other Industrial Experts.

## Target Audience

Faculty Members of Engineering Colleges, Scientists & Engineers from R&D organizations, research scholars and industries are encouraged to attend this Programme.

## Topics to be covered

- Artificial intelligence Technologies
- Expert systems, Fuzzy systems
- Natural language processing
- Speech recognition, Pattern recognition
- Computer vision
- Decision-support systems
- AI application in agriculture special reference to Himalayas region
- Data Science for Geo Spatial data
- Artificial Neural Networks and its Application
- Ethical Concerns in AI