CHIEF PATRON

Mr. Sidhartha J. Shetty

Chairman-MIT, Kundapura

PATRONS

Dr. Abdul Kareem

Principal- MIT, Kundapura

Dr. Melwin D Souza

Vice Principal-MIT, Kundapura

CONVENERS

Dr. Manjunath Ramanna Lamani

Associate Professor, Department of CSE

Prof. Muralidhara B K

HoD, Department of CSE

ORGANIZING COMMITTEE

Dr Annamalai M, Associate Professor, CSE

Dr. Mohammed Ahmed Mohammed Fadhel Aljunid, Associate Professor, CSE

Prof. Sookshma Adiga, Assistant Professor, CSE

Prof. Prameela, Assistant Professor, CSE

Prof. Smithashree K, Assistant Professor, CSE

Prof. Anilkumar Shetty, Assistant Professor, CSE

Prof. Karthikeyan A, Assistant Professor, DS

Dr. Sam Abraham, Associate Professor, DS

Prof. Farana Mohammed Imran, Assistant Professor, DS

Dr. J.Prakash, Professor, ISE

Prof. Gayatri Madeva Devadiga, Assistant Professor, ISE

Prof. Gagan Bangera B T, Assistant Professor, CS-AIML

Prof. Zameer Ahamed H M, Assistant Professor, CSE-AIML

Prof. Prashant Naik, Assistant Professor, CSE-AIML

TARGET AUDIENCE

PG Students, Research Scholars, Industry Person, Faculty Members of UGC/AICTE-approved Engineering colleges from all over India

REGISTRATION DETAILS

Registration Link:

https://forms.gle/hLwPU3xJHevVHnvU7

Certificates will be shared to all the participants to their registered Email-Id.

Fee Payment: Scan the QR Code given below

Last date for registration:

July 30, 2025

MOODLAKATTE INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

Moodlakatte - 576217, Kundapura Taluk, Udupi District, Karnataka

MIT KUNDAPURA

NAAC Accredited

THREE-DAY ONLINE FACULTY DEVELOPMENT PROGRAMME

on

Research Frontiers in Artificial Intelligence, Machine Learning, and Deep Learning

Organized

by

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

in association with

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

31 July to 02 August 2025

Timings: 9-00 AM to 5-00 PM

www.mitkundapura.com

ABOUT THE COLLEGE

Moodlakatte Institute of Technology, is founded by Shri I. M. Jayaram Shetty in the year 2004. It is affiliated to Visvesvaraya Technological University, Belagavi and approved by All India Council for Technical Education (AICTE), New Delhi. It is situated at Moodlakatte, about 200 meters from Kundapura railway station. The institute offers under graduate programmes in Computer Science Engineering, Electronics & Communication Engineering, Artificial Intelligence and Machine Learning Engineering, CS (Data Science) Engineering, CS (AI & ML) Engineering, Information science Engineering, Post graduate programmes in Master of Business Administration (MBA) & Master of Computer Application.

VISION

To be a hub of higher education in Technology and Management by imparting quality education with a focus on creativity, innovation and social values to inspire, motivate and empower the young minds.

MISSION

- Provide a dynamic academic environment that nurtures comprehensive education.
- Facilitate industry collaborations to boost practical skills and foster entrepreneurial spirit.
- Encourage creativity, innovation, and research through cutting-edge infrastructure and expert faculty.
- Cultivate personal growth, professional skills, ethical values, and a sense of social responsibility.

ABOUT THE DEPARTMENT

The Department of Computer Science & Engineering was started in the year 2004 and offers BE (Computer Science & Engineering) with an intake of 60. The main focus of the department is to produce graduates with strong fundamentals in the Computer Science and Engineering domain. The current intake for the Computer Science & Engineering department is 120.

DEPARTMENT VISION

To be a pioneer and internationally recognized institute in Computer Science and Engineering, leading the way in cutting-edge research, technological innovations, and producing highly skilled professionals to address the challenges and opportunities of the digital age.

DEPARTMENT MISSION

- Providing comprehensive and cutting-edge education in Computer Science and Engineering, equipping students with the knowledge and skills needed to succeed in the rapidly evolving tech industry
- Fostering collaborative and interdisciplinary culture within the department, encouraging students and faculty to explore innovative solutions through cross-disciplinary projects and partnerships
- Engaging in community outreach programs, leveraging technology to address local societal needs and contribute positively to the well-being and development of the broader community
- Instilling a strong sense of ethics and social responsibility among students, emphasizing the importance of using technology responsibly and sustainably to create a positive impact on society and the environment.

ABOUT THE FDP

This online Faculty Development Program is designed to equip participants with cutting-edge knowledge and practical skills in Artificial Intelligence, Machine Learning, and Deep Learning. The program begins with an in-depth session on Responsible and Ethical AI, addressing issues such as bias, fairness, and interpretability. Participants will engage in hands-on sessions focused on core ML algorithms, followed by technical deep dives into DL architectures like CNNs, RNNs, and emerging models such as Vision Transformers and Diffusion Models. Generative AI is explored both conceptually and practically, including its applications in text, image, and audio generation. The FDP also highlights critical advancements in Medical Image Processing, Explainable AI (XAI), and the integration of AI in healthcare systems. Concluding with sessions on reviewing recent research benchmarks, exploring funding and collaboration opportunities, and forecasting future AI trends, this FDP serves as a comprehensive platform for educators and researchers to strengthen their expertise and foster impactful innovations in AI.

RESOURCE PERSONS

- Dr. Indra Vijay Singh, Professor, MIT, Kundapura, Udupi, Karnataka
- Dr. Sandeep Kumar P, Professor, CHRIST University
- Dr. Shyam Lal, Associate Professor, NITK Surathkal
- Dr. Devika, Associate Professor, Govt. Engineering College, KR Pet, Mandya
- Dr. Rekha V, Associate Professor, CHRIST University
- Dr. Sujata AK, Associate Professor, CHRIST University
- Dr. Deepak Kumar Dewangan, Department of CSE, ABV-IIITM, Gwalior
- Prof Nithin, AI Engineer, Happysales AI, Ex-Data Scientist, IIT Madras
- Dr. Anoop BN, Assistant Professor, MIT, Manipal
- Dr. ManojKumar Patil, AI Head, PURVIEW Services, Hyderabad, Telangana (Software | Technology | AI | AR-VR Solutions)
- Dr. Vinutha H, Assistant Professor, BMSCE, Bengaluru
- Dr. Sobha Xavier P, Assistant Professor, Jyoti Engineering College, Thrissur, Kerala
- Dr. Poornima B V, Assistant Professor, CSE, SAHYADRI College of Engineering and Management, Mangaluru, Karnataka

Day 1 - 31/07/2025

09:30 – 10:00 AM
Inauguration & Welcome
Session 1: 10:00 – 11:00 AM
Evolution of AI, ML & DL – Past to Present
Session 2: 11:15 – 12:15 PM
Recent Trends in Machine Learning
Session 3: 12:15 – 01:15 PM
Hands-on: Analysis of Medical Images
Session 4: 02:00 – 03:00 PM
Responsible & Ethical AI – Bias, Fairness, Interpretability
Session 5: 03:00 – 04:30 PM
Hands-on: ML Algorithms

Day 2 - 01/08/2025

Session 6: 09:30 – 11:00 AM
DL Fundamentals & Architectures – CNNs, RNNs, Transformers
Session 7: 11:15 – 12:15 PM
Generative AI in Practice – Text, Image, Audio Generation
Session 8: 12:15 – 01:15 PM
Emerging Trends in DL – Vision Transformers, Diffusion Models
Session 9: 02:00 – 03:00 PM
Hands-on: DL – Vision Transformers, Diffusion Models
Session 10: 03:00 – 04:00 PM
Generative AI – Principles & Models
Session 11: 04:00 – 05:00 PM
Interactive Discussion – DL Challenges in Real-World Scenarios

Day 3 - 02/08/2025

Session 12: 09:00 – 10:00 AM
Medical Image processing, XAI, and Gen AI in MIP
Session 13: 10:00 – 11:00 AM
AI in Healthcare
Session 14: 11:15 – 12:15 PM
Reviewing Research Papers & Benchmarks
Session 15: 12:15 – 01:15 PM
Hands-on: Image Recognition using Machine Learning
Session 16: 02:00 – 03:00 PM
Proposing Research Ideas, Grants & Collaboration Opportunities
Session 17: 03:00 – 04:00 PM
The Future of AI – Trends for the Next Decade
04:00 – 05:00 PM
Valedictory

Title	Three-Day online - Research Frontiers in Artificial Intelligence, Machine Learning, and Deep Learning- MIT, Kundapura Google Meet joining info Video call link: **https://meet.google.com/zek-bpmk-snb**		
Day	**Time**	**Session**	**Resource Person**
Day 1 - 31/July/2025	09:30 – 10:00 AM	Inauguration & Welcome	
	10:00 – 11:00 AM	Session 1: Evolution of AI, ML & DL – Past to Present	Dr. ManojKumar Patil, PURVIEW Services, Software Solutions | Technology Solutions, AI Solutions | AR-VR Solutions, Hyderabad, Telangana
	11:00 – 11:15 AM	Tea Break	
	11:15 – 12:15 PM	Session 2: Recent Trends in Machine Learning	Dr. Vinutha H, Assistant Professor, BMSCE, Bengaluru.
	12:15 – 01:15 PM	Session 3: Proposing Research Ideas, Grants & Collaboration Opportunities	Dr. Shyam Lal, Associate Professor, NITK Surathkal
	01:15 – 02:00 PM	Lunch Break	
	02:00 – 03:00 PM	Session 4: Responsible & Ethical AI – Bias, fairness, interpretability	Dr. Indra Vijay Singh, Professor, MIT, Kundapura, Udupi, Karnataka.
	03:00 – 04:30 PM	Session 5: Hands-on: ML Algorithms	Dr. Devika, Associate Professor, Govt. Engineering College, Kushalnagar
Day 2 - 01/August/2025	09:30 – 11:00 AM	Session 6: DL Fundamentals & Architectures – CNNs, RNNs, Transformers	Dr. Deepak Kumar Dewangan, Department of Computer Science & Engineering, ABV-IIITM, Gwalior, India
	11:00 – 11:15 AM	Tea Break	
	11:15 – 12:15 PM	Session 7: Generative AI in Practice – Text, image, audio generation	Prof. Nithin, AI Engineer, Happysales AI, Ex. Data Scientist, IIT Madras
	12:15 – 01:15 PM	Session 8: Emerging Trends in DL – Vision Transformers, Diffusion Models	Prof. Nithin, AI Engineer, Happysales AI, Ex. Data Scientist, IIT Madras
	01:15 – 02:00 PM	Lunch Break	
	02:00 – 03:00 PM	Session 9: Hands-on: DL – Vision Transformers, Diffusion Models	Prof. Nithin, AI Engineer, Happysales AI, Ex. Data Scientist, IIT Madras
	03:00 – 04:00 PM	Session 10: Generative AI – Principles & Models	Dr. Rekha V, Associate Professor, CHRIST University.
	04:00 – 05:00 PM	Session 11: Interactive Discussion: DL challenges in real-world scenarios	Dr. Sandeep Kumar P, Professor, CHRIST University.
Day 3 - 02/August/2025	09:00 – 10:00 AM	Session 12: Medical Image processing, XAI and Gen Ai in MIP	Dr. Anoop BN, Assistant Professor, MIT, Manipal
	10:00 – 11:00 AM	Session 13: AI in Healthcare	Dr. Shyam Lal, Associate Professor, NITK Surathkal
	11:00 – 11:15 AM	Tea Break	
	11:15 – 12:15 PM	Session 14: Reviewing Research Papers & Benchmarks	Dr. Devika, Associate Professor, Govt. Engineering College, Kushalnagar
	12:15 – 01:15 PM	Session 15: Hands-on: Image Recognition using Machine Learning	Dr. Poornima B V, Assistant Professor, CSE, SAHYADRI College of Engineering and Management, Mangaluru, Karnataka
	01:15 – 02:00 PM	Lunch Break	
	02:00 – 03:00 PM	Session 16: Hands -on: Analysis of Medical images	Dr. Sobha Xavier P, Assistant Professor, Jyoti Engineering College, Thrissur, Kerala
	03:00 – 04:00 PM	Session 17: The Future of AI – Trends for the Next Decade	Dr. Sujata AK, Associate Professor, CHRIST University.
	04:00 – 05:00 PM	Valedictory	