

## REGISTRATION FORM

ONE DAY  
HANDS-ON TRAINING  
“OPTIMIZATION ALGORITHMS FOR  
MACHINE LEARNING AND DEEP  
LEARNING”

18<sup>th</sup> DECEMBER 2024

1. Name :
2. Designation :
3. Gender :
4. Educational Qualification:
5. Institution Name:
6. Institution Address:
  
7. Address for Communication:
  
8. Email ID :
9. Mobile No :
10. IEEE Membership no:

**CATEGORY:**

- Faculty
- Research Scholar
- UG/PG Student

Experience (in Years):

Teaching:            Research:            Industry:

**DECLARATION**

I hereby declare that the above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the hands-on training programme and shall attend the course for its entire duration.

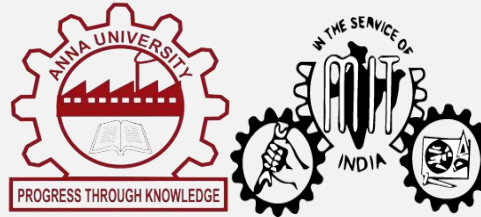
Date :

Place:

Signature of the Participant

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HANDS-ON TRAINING  
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18<sup>th</sup> DECEMBER 2024



**ORGANISED BY**

**IEEE STUDENT BRANCH &  
IEEE IES STUDENT BRANCH CHAPTER  
and  
DEPARTMENT OF ELECTRONICS  
ENGINEERING  
MADRAS INSTITUTE OF TECHNOLOGY,  
ANNA UNIVERSITY, CHENNAI – 600044.**



**CO-ORDINATORS**

**Dr. V. R. VIJAYKUMAR,  
Prof., / Electronics Engineering**

**Dr. A. DIVYA  
Asst. Prof., / Electronics Engineering**

## ORGANIZING COMMITTEE

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Additional Chief Secretary  
Higher Education Department  
Govt. of Tamil Nadu.

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## ABOUT THE UNIVERSITY

Anna University was established on 4th September 1978 as a unitary type of University. It offers higher education in Engineering, Technology and allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained there from, it fosters cooperation between the academic and industrial communities. Anna University is of the affiliated type and is a member of the Association of Indian Universities, the Association of Commonwealth Universities and Partner of UNESCO International Center for Engineering Education (UICEE). With proven capabilities both in academic and research areas, Anna University was able to impart quality and excellence in Technical Education. As per NIRF ranking Anna University secured first rank in state universities. Anna University has Four Regional campuses at Coimbatore, Madurai, Tiruchirapalli and Tirunelveli to sphere head the academic activities throughout the state.

## ABOUT THE INSTITUTION

Madras Institute of Technology is one of the premier technical institutions started in the year 1949 by Shri. C. Rajam, an eminent industrialist. The institute is established as a result of a bold experiment in technical education as it introduced for the first time, totally unconventional Engineering courses such as Aeronautical Engineering, Automobile Engineering, Electronics Engineering and Instrumentation Engineering. It was merged with Anna University in the year 1978.

## ABOUT THE DEPARTMENT

The Department of Electronics Engineering established in the year 1949, has its core strength in the leading areas of Electronics & Communication Technology. The academic programmes offered in the Department are B.E (Electronics and Communication Engineering), M.E (Communication and Networking, VLSI Design and Embedded Systems & Wireless Technologies). The cutting-edge research areas include Artificial Intelligence, Image Processing & Pattern Recognition, Communication Technologies, Network Security, Sensor Networks, Optical Communication, Signal Processing, Embedded Systems and VLSI. The Department has collaborative partners from academia and industry both within India and worldwide.

## SCOPE OF THE WORKSHOP

This hands-on training focused on the optimization algorithms used in deep learning, emphasizing their role in enhancing model performance, accelerating convergence, and addressing challenges in training complex neural networks. In addition, this training is structured to cover foundational concepts, advanced methods, and practical applications.

## TOPICS TO BE COVERED

- Introduction to Machine Learning
- Deep Learning Model Basics
- Gradient-Based Optimization Methods
- Heuristic and Nature-Inspired Methods
- Evolutionary Algorithms in Deep Learning
- Challenges in optimization

## Registration Fees

**IEEE Members: Rs.200/-**

**Non-IEEE Members: Rs.300/-**

**The registration fees can be paid through NEFT/UPI**

### Payment Details:

**Account Name: IEEE Student Section**

**Account Number: 1119155000274672**

**Bank: Karur Vysya Bank**

**Branch: Chromepet**

**IFSC code: KVBL0001119**

**Submit the signed registration form and payment proof with the transaction number to the google link:**

<https://forms.gle/Mi6MJrxca4RRFDhRA>

Contact Number: +91 – 9677353583

Mail ID: [adivyaee@mitindia.edu](mailto:adivyaee@mitindia.edu)

## IMPORTANT DATES

Submission of Application : 16/12/2024

Intimation of Selection : 17/12/2024

Confirmation by Participants : 17/12/2024