Short-Term Online Training Program

on

Machine Learning Techniques for Cross-domain Applications

Dec 21 - 26, 2020

Sponsored by

TEQIP – III

Technical Education Quality Improvement Programme

**INDIAN INSTITUTE OF TECHNOLOGY INDORE
KIT- IITI-TEQIP -III**

Organized By

Discipline of Computer Science & Engineering
&
Discipline of Astronomy, Astrophysics and Space Engineering
Indian Institute of Technology Indore
Indore-453552, INDIA

Course Coordinators

**Dr. Somnath Dey & Dr. Abhirup Datta
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Overview of the Course:

Machine learning techniques are used in different domains. There are several courses which cover different machine learning techniques for a particular domain. However, this course will provide an excellent opportunity to explore machine learning techniques used for a number of applications in different research domains. Participants of this course can feel an essence of how a machine learning technique solves the problem in various research domains.

Learning Objectives:

This course will provide an exhaustive introduction into the application areas of Machine Learning. Participants are expected to learn about various applications of Machine Learning in different domains of commercial and research usage. This course should prepare the participants to choose the most appropriate area of application. This can help them to identify the area of their future employment or career advancement.

Topics to be Covered (Tentative):

- Basics of Machine Learning Techniques
- Advance Application of Machine Learning in:
    * Image and Signal Processing
    * Navigation and Communications
    * Biometrics Security
    * Space Applications
    * Video Analysis
    * Medical Imaging
    * Financial Sector

Resource Persons :

Dr. Somnath Dey, CSE, IIT Indore
Dr. Abhirup Datta, DAASE, IIT Indore
Dr. Surya Prakash, CSE, IIT Indore
Dr. Puneet Gupta, CSE, IIT Indore
Dr. Vivek Kanhangad, EE, IIT Indore
Dr. Pratik Chattopadhyay IIT BHU
Dr. Debdoot Sheet, IIT Kharagpur

Intended Participants:

The teachers of the TEQIP funded Engineering Colleges are eligible under this scheme. They can attend this course **without paying any fee**. Faculty members from the streams such as Computer Science, Information Technology and Electrical & Electronics Engineering and other related streams are encouraged to apply under this program. The seats are limited, which would be filled on a first come first serve basis and the candidate's field of research interest. To check the list of eligible TEQIP colleges check following links:

1. https://www.teqip.in/subcomponent1_1.html
2. https://www.teqip.in/subcomponent1_2.html
3. https://www.teqip.in/subcomponent1_3.html
4. https://www.teqip.in/twinnedinstitutions.html

Participants other than teachers of TEQIP approved colleges (students and participants from industry etc.) can also attend the course by paying a fee. For any query, drop an email to somnathd@iiti.ac.in

Course Fee:

- Faculty member from TEQIP funded Institutes: **No fee** (however prior registration is must).
- Faculty members/students from non-TEQIP funded institutes: Rs. 5,000.
- Industry personals and others: Rs. 10,000.
- Participants from outside India: USD 500.
- **Online Payment :** http://www.iiti.ac.in/page/e-payments
- **Bank Transfer:**
Beneficiary Name: Registrar IIT Indore; Bank Name : Canara bank; Branch: IIT Indore, Khandwa Road, Simrol, Indore. A/C: **1476101027440**, IFS Code: **CNRB0006223**
- A soft copy of the completely filled registration form (along with online payment slip, if any, for the course fee) should be sent by email to somnathd@iiti.ac.in on or before December 17, 2020

How to Apply:

To apply please click here. Alternatively, copy the link https://forms.gle/xCyoio3qDg9pqb9M8 and paste it on your browser window to open the registration page.

Note: After successful completion of program, a certificate of participation will be given to the participants.