



QIP (AICTE) SPONSORED Short-Term Course



on

Machine Learning Techniques for Biometric Security

June 20-25, 2022

Organized By

Department of Computer Science & Engineering
Indian Institute of Technology Indore
Indore 453552, India

Overview of the course:

Machine learning is utilized to solve many challenging real-world problems and the biometrics is one of the most important applications of machine learning. This STC will cover the different machine learning techniques for biometrics applications. Further, the course will encompass on some new aspects of using machine learning techniques for biometrics as well.

How will this STC going to benefit participants?

This course will cover the basic machine learning techniques, their application on biometric technology and the different research aspects in these domains. Thus, the course will help teachers to grasp the knowledge of machine learning techniques and their real-world applications in biometrics security. Further, teachers will be familiar with different research problems, and they can continue their research in this domain.

Intended participants:

The teachers of the AICTE approved colleges are eligible to attend this course under this scheme without paying any fee. Faculty members from the streams such as Computer Science, Information Technology and Electrical / Electronics & Communication Engineering and other related streams can apply under this program. Participants other than teachers of AICTE approved colleges (students and participants from industry etc.) can also attend the course by paying a fee.

Tentative topics to be covered in the course:

Introduction to Biometric Technology, Introduction to Machine Learning Techniques, Insight of Major Biometric Technologies: Fingerprint Recognition, Iris Recognition, Face Recognition, Ear Recognition, Gait Recognition, Insight of Machine Learning Algorithms: Supervised Learning, Un-supervised Learning, Semi-supervised Learning, Reinforcement Learning, Applications of above Techniques on Biometrics

How to apply?

Application form can be submitted by filling the online form. To apply for the course, [click here](#). Alternatively, copy the Link <https://forms.gle/5wipXE8oCz4pCbfc9> and paste it on your browser window to open the registration page. Last Date: 19-June-2022(5-00PM)

Tentative schedule:

The course comprises of lecture and tutorial sessions where each day will have three sessions of one and half hour duration each. Session-1 will be from 10:30AM-12:00PM, Session- 2 will be from 12:00PM-13:30PM, and Session-3 will run from 15:00PM-16:30PM. The last day will have a test and a feedback session.

Course fee:

- Faculty Members from AICTE Approved Institutes: No fee
- Faculty Members/Students from Non-AICTE Approved Institutes and Students from AICTE Approved Institutes: Rs. 1,500/-
- Participant from Industry/ Business organization: Rs. 15,000/-
- Participant from outside India: USD 500
- [Click here](#) to Pay fee

Fee paid will be refunded in case a candidate is not shortlisted for the course. However, no refund of the fee will be provided if a candidate is shortlisted and does not attend the course.

Course Coordinator:

Dr. Somnath Dey
Associate Professor
Department of Computer Science & Engineering
Indian Institute of Technology Indore
Indore-453552, Madhya Pradesh, INDIA
Phone: +91-731-660-3243
For any further queries, contact Course Coordinator, Dr. Somnath Dey at somnathd@iiti.ac.in.

*** Participants will get the course certificate after the successful completion of the course.**