



SHARDA
UNIVERSITY
Beyond Boundaries



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

Centre for Artificial Intelligence in Medicine, Imaging & Forensics (CAIMIF)

SCHOOL OF MEDICAL SCIENCES & RESEARCH

SCHOOL OF DENTAL SCIENCES



21st April 2025
to

26th April 2025

CAIMIF, SMSR & Unit of Forensic Odontology, SDS

SHARDA University

is Jointly organising

1 week Certificate Training Program on
**Artificial Intelligence, Forensic
Odontology and Forensic Medicine**

Physical mode- Lectures & workshops

CHIEF PATRONS



Shri. P. K. Gupta
Hon. Chancellor,
Sharda University



Shri. Y.K. Gupta
Hon. Pro-Chancellor,
Sharda University

PATRONS



Prof. (Dr.) Sibaram Khara
Vice-Chancellor,
Sharda University



Prof. (Dr.) Parma Nand
Pro-Vice Chancellor,
Sharda University

CONVENERS



DEAN RESEARCH
Dr. Bhuvnesh Kumar



DEAN SMSR
Dr. Nirupma Gupta



DEAN SDS
Dr. Prof. M. Siddharth



COURSE DIRECTOR
Prof. Ashok Kumar
Head CAIMIF & Professor
Dept. of Physics, SSBSR,
Sharda University



COURSE DIRECTOR
Dr. Parul Khare
In charge Forensic
Odontology Unit,
Asst. Professor, Dept. of
Oral & Maxillofacial
Pathology & Oral
Microbiology, SDS and
Member CAIMIF

ABOUT THE TRAINING PROGRAM

The objective of this comprehensive training program is to provide a transformative learning experience by integrating Artificial Intelligence (AI) with key aspects of Forensic Odontology, Forensic Medicine, Anatomy and Forensic Psychiatry. The program is designed to empower participants with cutting-edge knowledge and practical skills, laying the foundation for the future of forensic science. Through a combination of lectures, hands-on training, and workshops, participants will explore the vast potential of AI in revolutionizing forensic practices, including gender identification using individual bones, disaster victim identification, and stress management from forensic perspectives. Special emphasis will be placed on the integration of AI into maxillofacial radiology and dental identification, showcasing how traditional methods can be enhanced by modern AI technologies.

Participants will gain proficiency in Python programming, machine learning, and deep learning, with specific modules covering data handling (NumPy, Pandas), plotting (Matplotlib, Seaborn), and AI frameworks (TensorFlow, Keras). The program also emphasizes ethics in AI and provides participants with hands-on experience in training AI models using dental data, contributing to future advancements in forensic identification. Through this multidisciplinary approach, the program aims to shape the next generation of professionals who will drive innovation at the intersection of AI, Forensic Odontology, Forensic Medicine and Forensic Sciences.

BENEFITS OF PARTICIPATION

Expand your knowledge and skills in AI-driven forensic techniques, enhancing your proficiency and credibility as an expert

Join us on this exciting journey at the intersection. Together, let us unlock new forensic insights and propel the field towards greater accuracy, efficiency, and justice.

Training Program Schedule

| Day | Time | Topics | Instructor | Venue |
|-----------------------|------------------------|---|--|---------------------------------------|
| Monday 21-04-25 | 10.00 AM - 11.00 AM | Lecture: Transformative Influence of Artificial Intelligence in Forensic Odontology, future and scope. | Dr. Parul Khare | Unit of Forensic Odontology, SDS |
| | 11:30 AM- 12:30 PM | Lecture: Introduction to Artificial Intelligence | Prof. Ashok Kumar | CAIMIF |
| | 1:30 PM – 4:30 PM | Hands on training: Python Programming basics | CAIMIF team | CAIMIF |
| Tuesday 22-04-25 | 9:30 AM – 11 AM | Lecture and Workshop: Gender Identification with Individual Bones | Dr. Ankur Sharma Dr. Nirupma Gupta | Department of Anatomy, SMSR |
| | 11:30 AM – 1 PM | Hands-on training: Python data handling Modules Numpy, Pandas | CAIMIF team | CAIMIF |
| | 1:30 PM – 4:30 PM | Hands on training: Python Plotting Modules: Matplotlib, Seaborn | CAIMIF team | CAIMIF |
| Wednesday 23-04-25 | 9:30 AM – 10.30 AM | Lecture: Disaster Victim Identification and Management | Dr. Abhijeet Sehrawat Dr. Ankita Kakkar | Department of Forensic Medicine, SMSR |
| | 10.30- | Lecture: Stress Management | Dr Abhinit Kumar | Department of |

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| | 11.30 AM | with Forensic Perspectives | Dr. Kunal Kumar | Psychiatry |
| | 11:30 AM – 1 PM | Lecture: Introduction to Machine Learning | Prof. Ashok Kumar | CAIMIF |
| | 1:30 PM – 4:30 PM | Hands on training: Python Machine Learning Module: Scikit-Learn. | CAIMIF team | CAIMIF |
| Thursday 24-04-25 | 9:30AM – 11:30 AM | Lecture: Role of AI in Maxillofacial Radiology Workshop: Role of AI in Maxillofacial Radiology | Dr. Hemant Sawhney and Dr Kushdeep Kumar Gupta | Dept of Oral Medicine & Radiology, Unit of Forensic Odontology |
| | 12 PM - 1 PM | Lecture: Artificial Neural Networks | Prof. Ashok Kumar | CAIMIF |
| | 1:30 PM – 4:30 PM | Hands on training: Building some Artificial Neural Networks using Python Deep Learning Modules Tensorflow and Keras, | CAIMIF team | CAIMIF |
| | 9:30 AM - 11:30 AM | Lecture & Workshop: Analysis of AI, Dental Casts, and Photographs: Bridging Traditional and Modern Forensic Odontology Identification Techniques | Dr. Parul Khare Dr Deepak Bhargava | Unit of Forensic Odontology Dept. Oral & Maxillofacial Pathology & Oral Microbiology |
| Friday 25-04-25 | 12 PM - 1 PM | Lecture: Introduction to Deep Learning via Convolutional Neural | Prof. Ashok Kumar | CAIMIF |

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|----------------------|-----------------------|--|-----------------|--------------------------------|
| | | Networks (CNNs) | | |
| | 1:30 PM – 4:30 PM | Hands-on training: Python Deep Learning Training a basic CNN model | CAIMIF team | CAIMIF |
| Saturday 26-04-25 | 9:30 AM - 10:30 AM | DVI & INTERPOL guidelines | Dr. Parul Khare | Unit of Forensic Odontology |
| | 10:30 AM- 11:30 AM | Ethics of AI | Dr. Parul Khare | Unit of Forensic Odontology |
| | 12 PM - 4:30 PM | Hands on project work: Training a Machine Learning and a Deep Learning (CNN) model on dental data. | CAIMIF team | CAIMIF |

Training Program Eligibility - PhD (Forensic Medicine)
PhD (Forensic Odontology)
PhD (Forensic Sciences)
MD (Forensic Medicine)
MDS
MSc Forensic Odontology
MSc Forensic Sciences

Registration fee: Foreign Nationals \$ 354 including GST

Indian Students ₹ 20,000 Including GST

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|----------------------|---|
| Bank Name: | ICICI Bank Ltd. |
| Branch Address: | Krishna Apra Royal Plaza, D-2, E(acb), Alpha-1, Greater Noida, Gautam Budh Nagar, UP- 201306 |
| Account Holder Name: | Sharda University-Seminar |
| Account No.: | 025405005815 (CURRENT AC) |
| IFSC Code: | ICIC0000254 |
| SWIFT Code: | ICICINBBCTS |
| MICR Code: | 110229037 |

REGISTRATION LINK

<https://forms.gle/xvRjrB8zqQy6MBxW7>

Date: 21 April to 26 April 2025

Venue: Centre for Artificial Intelligence in Medicine, Imaging & Forensics, Block 2, Room-103B

Unit of Forensic Odontology, School of Dental Sciences, Building 21, Room no: 10
New College Council Room, 6th Floor, Sharda School of Medicine & Research Centre

For any queries:

Contact Course Director- Dr Parul Khare at Parul.khare@sharda.ac.in

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