



CERTIFICATE COURSE ON ARTIFICIAL INTELLIGENCE IN MEDICINE (CCAIM)

SUBSPECIALITY BATCH

2026 COHORT

LABORATORY MEDICINE



Approved and Certification by
Healthcare Sector Skill Council
Ministry of Skill Development
and Entrepreneurship, GOI

This batch is endorsed by Association of Medical Biochemists of India, West Bengal Chapter, Calcutta Association of Practising Pathologists and Association of Practising Pathologists, Haryana

COMING
SOON

200+ medical professionals from across the globe have already embraced AI through CCAIM—be part of the revolution shaping the future of medicine!

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INTEREST AND JOIN
THE WAITLIST



ADMISSIONS OPENS
FROM MAY 2026
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This course is affiliated to



Supported by



Program Objective and Curriculum

Objective of the Program

The **Certificate Course on Artificial Intelligence in Medicine – Laboratory Medicine Special Cohort** aims to:

- Provide a structured understanding of Artificial Intelligence, Big Data Analytics, and Generative AI in laboratory medicine.
- Explore AI applications across **Pathology, Haematology, Clinical Biochemistry, Microbiology, Digital Pathology, and Laboratory Informatics**.
- Equip laboratory medicine professionals with practical AI tools for reporting, quality control, analytics, research writing, and workflow optimisation.
- Introduce AI-enabled decision support in LIS/LIMS, reflex testing, delta checks, critical value alerts, antibiogram analysis, and digital pathology workflows.
- Build practical competence in AI-assisted research, data dashboards, no-code analytics, and responsible use of browser-based AI tools.
- Prepare participants to evaluate, validate, and responsibly implement AI tools in laboratory settings with attention to ethics, privacy, regulation, and accreditation standards.

What Will Be Covered?

Foundations of AI in Laboratory Medicine

- Basics of AI, Machine Learning, Deep Learning, NLP, Computer Vision, and Generative AI.
- Introduction to Big Data Analytics and laboratory data streams.
 - AI use cases across Pathology, Biochemistry, Microbiology, and Haematology.
- Ethical, legal, and regulatory aspects including DPDP Act, ICMR, NABL, CDSCO, and responsible AI.

Laboratory Data, Informatics, and Workflow Integration

- LIS/LIMS data architecture, laboratory dashboards, TAT analytics, and QC trends.
- Health informatics standards including HL7 FHIR, SNOMED CT, LOINC, and DICOM.
 - AI-enabled decision support for reflex testing, delta checks, and critical value notifications.
 - Agentic AI workflows for sample flagging, antibiogram generation, and lab automation.

Clinical and Diagnostic Applications

- AI in digital pathology, WSI analysis, IHC scoring, tumour grading, and TIL analysis.
- AI in haematology for automated differentials, smear screening, and flag review.
- AI in biochemistry for delta checks, QC pattern recognition, critical value alerts, and AKI prediction.
- AI in microbiology for culture interpretation, AMR prediction, antibiogram analysis, and surveillance.

Practical Implementation, Validation, and Capstone

- Hands-on exposure to no-code and guided AI tools for lab data science.
- Subspecialty workshops in Digital Pathology, Biochemistry, and Microbiology.
- Evaluation and validation of lab AI using sensitivity, specificity, ROC/AUC, fairness, and model drift.
- Capstone project focused on a real-world laboratory medicine AI use case.

Eligibility and Training Methodology

Who Can Join?

The program welcomes:

- Pathologists, microbiologists, biochemists, haematologists, laboratory physicians, and laboratory medicine specialists.
- Clinicians, medical teachers, medical researchers, and healthcare professionals working with diagnostic data.
- Postgraduate students and early-career professionals interested in AI-enabled laboratory medicine.

Eligibility: No prior technical knowledge required—basic digital literacy suffices.

Training Methodology

Mode of Delivery

42 hours of live, interactive online sessions.

Weekend Learning

Convenient sessions designed for professionals.

Interactive Learning

Case studies, live demos, and real-world projects.

Experienced Faculty

Medical professionals and AI experts with hands-on healthcare project experience.

Resources

Comprehensive Doctors AI Academy LMS access, assignments, and project-based evaluations.

Value Proposition

Participants will gain:

- Dual Certification from Universal AI University and the Healthcare Sector Skill Council (HSSC), MSDE, GOI.
- Exposure to AI tools for enhanced clinical practice, improved patient outcomes, and advanced research capabilities.
- Insight into legal, ethical, and practical applications of AI in healthcare.

₹40,000 INR + GST

Course Fee

Inclusive of all resources and certifications

Course faculties for this batch will be announced soon!

ⓘ This batch is endorsed by Association of Medical Biochemists of India, West Bengal Chapter, Calcutta Association of Practising Pathologists and Association of Practising Pathologists, Haryana

Join India's first focused CCAIM Laboratory Medicine Cohort — bringing AI, data science, LIS/LIMS integration, diagnostics, and responsible implementation to the future-ready laboratory professional.


About Us

Doctors AI Education and Research Foundation | Indian College of Artificial Intelligence in Medicine (ICAIM)

Doctors AI is a clinician-driven initiative committed to empowering healthcare professionals with the knowledge and skills required to responsibly adopt artificial intelligence in clinical practice, research, and healthcare systems. Focused on real-world medical relevance, Doctors AI bridges the gap between emerging AI technologies and bedside medicine through structured education, capacity building, and clinician-centric innovation.

The **Indian College of Artificial Intelligence in Medicine (ICAIM)** serves as the academic and credentialing arm of Doctors AI Education and Research Foundation, dedicated to developing standardized curricula, competency frameworks, and academic rigor for AI education in medicine. ICAIM emphasizes ethics, validation, regulation, and human-in-the-loop decision-making to ensure safe and evidence-based AI integration.

With a growing community of over 5,000 members worldwide and over 500 life members at ICAIM, Doctors AI empowers healthcare professionals with the tools and knowledge to harness AI effectively in their practices.

 Visit us for more details: www.doctors-ai.org

Expected Career Outcomes

- Upskill professionals to lead transformations in healthcare using AI and analytics.
- Facilitate career growth for freshers and experienced professionals in healthcare data analytics.
- Enable support service providers to progress in healthcare-focused AI applications.

Apply Now

[Click Here to Register for the Course](#)

Admissions Are Open!

 **Extended Last Date for Admission: 15th June 2026**

- [Click here](#) to visit our website.
- Email: office@doctors-ai.org | [ccaим.doctors.ai@gmail.com](mailto:ccaim.doctors.ai@gmail.com)
- For Admissions or Queries Call: **+91-7003119168**

Certified by **The Healthcare Sector Skill Council, Government of India**, Exclusively as a Competency Enhancement Program (CEP)

Transform your career today with AI in medicine!