

# Master of Health Sciences in Medical Artificial Intelligence

*Train at the intersection of AI and medicine. Lead the future of health care.*

Yale School of Medicine is launching a new online **Master of Health Sciences (MHS) in Medical Artificial Intelligence** — a part-time, two-year hybrid program for working professionals, with most coursework online and two immersive in-person weeks on Yale's campus in New Haven.

## Our program offers:

- Hands-on Medical AI Lab: interactive assignments using real medical data across imaging, EHR and sensor modalities
- Personalized capstone project with Yale faculty mentorship, with optional in-person summer residency
- Two specialized tracks — Technical and Clinical — with a shared core in AI foundations, medical data, ethics and regulatory compliance
- Limited financial aid available, including support for in-person summer project work in New Haven

**The Technical Track** is designed for computer scientists, data scientists and engineers with strong Python skills. This track trains graduates to build the next generation of medical AI tools — from machine learning models to regulated software products. Students gain deep expertise in medical data types (imaging, EHR, omics), AI algorithm design and the software engineering lifecycle for medical devices. Graduates are prepared for careers as ML scientists, software engineers and data analysts across medtech, pharma and health care.

**The Clinical Track** is built for clinicians, regulatory professionals and health care managers. This track prepares leaders who can evaluate, implement, govern and ensure regulatory compliance of medical AI solutions — no prior programming required. Students develop expertise in AI limitations, health care operations, clinical study design and governance frameworks for AI in health systems. Graduates pursue roles as Chief Medical AI Officers, AI regulatory specialists, Medical Informatics Officers or lead AI physicians in major health care organizations.

## How to Apply

Program begins **August 2027**

Apply by **February 1, 2027**

Application information is available at [online.yale.edu](https://online.yale.edu). Notifications sent by **March 31, 2027**.



Required: undergraduate transcript, personal statement, and three letters of recommendation.

## Contact Us

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🌐 [online.yale.edu/programs/medical-artificial-intelligence-mhs](https://online.yale.edu/programs/medical-artificial-intelligence-mhs)