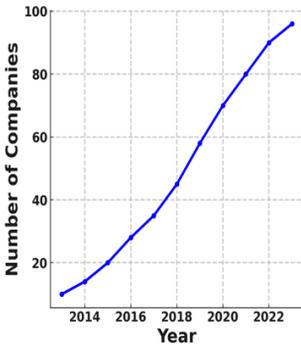


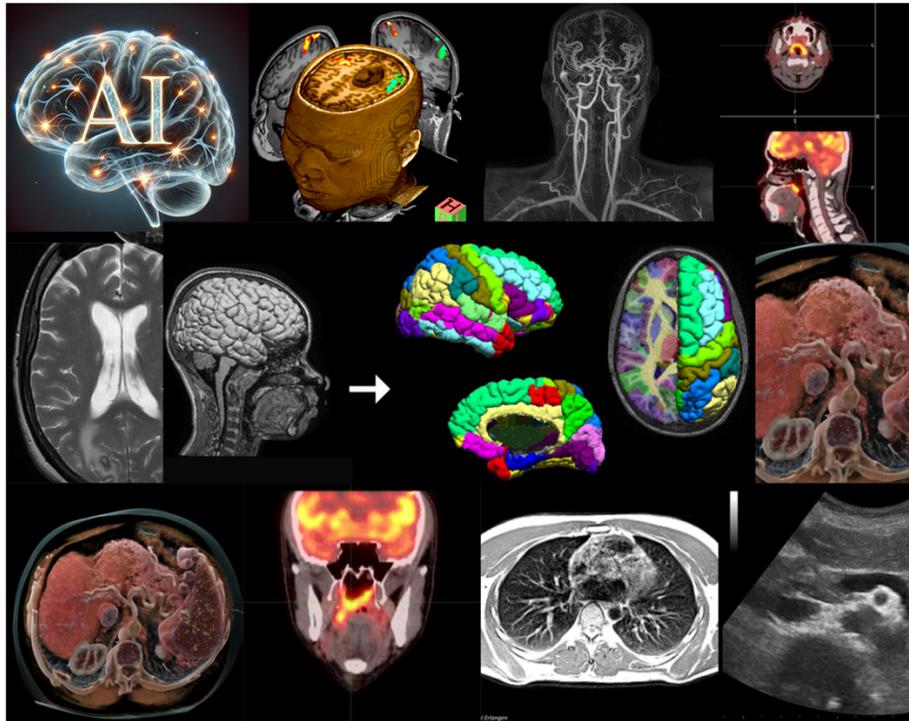
Winter 2025 : EE/CSE 577 Special Topics in Computer Vision

Medical Imaging Systems and AI-Driven Image Processing

Medical imaging and AI-driven solutions are rapidly expanding fields. This course provides an in-depth exploration of the fundamentals of various medical imaging modalities and investigates how AI, machine learning, and computer vision are transforming the field. Students will gain both theoretical knowledge and hands-on experience through practical development of AI-driven tools for medical imaging, empowering them with valuable skills and enhancing their career opportunities in this rapidly growing domain.



Steady Increase in the Number Of Companies Working On AI-Driven Medical Imaging Solutions Over the Past Decade.



Target Audience: This is a research-oriented course intended for graduate and senior undergraduate students interested in learning more medical imaging, image processing, machine learning and development of AI-Driven medical imaging solutions

Prerequisites: Solid knowledge of linear algebra, good programming skills

Credits: 3.0

Instructure: Hesam Jahanian, PhD (hesamj@uw.edu)