

## University of Texas Launches MD/MS Dual Degree in Artificial Intelligence



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The University of Texas Health Science Center at San Antonio, in collaboration with University College at the University of Texas at San Antonio, has launched an innovative dual degree program offering an MD and a Master of Science in Artificial Intelligence (MS in AI). This pioneering program, which began in 2022 following its planning stages in 2018, represents the first educational initiative of its kind in the United States.

### Pathways and Curriculum in the MD/MS Dual Degree Program

This dual degree program is designed to integrate AI with medical education, preparing physicians to lead in developing and applying AI technologies in healthcare. Students can enter the program through one of three pathways: computer science, data analytics, and robotics. The data analytics pathway is the most popular, as it focuses on practical applications and requires less theoretical knowledge in computer science, making it more accessible to a broader range of students.

The curriculum for the MS in AI degree includes comprehensive training in several key AI tools and techniques. These include machine learning, neural networks, deep learning, convolutional neural networks, and natural language processing. By mastering these tools, students will be able to develop and implement advanced AI applications tailored to healthcare needs.

### Foresight and Benefits: The Driving Forces Behind the MD/MS in AI Dual Degree Program

The program was initiated based on the foresight that AI and data analytics would become increasingly vital in the healthcare industry. As Dr. Ronald Rodriguez, the director of the MD/MS in AI program and a professor of medical education at the University of Texas Health Science Center at San Antonio, noted, the recognition of the growing importance of AI in health sciences drove the development of this dual degree. The goal was to ensure that physicians are equipped to harness AI technology for improving patient care and health outcomes.

Dr. W. Allen Fink, the Chief Medical Officer of UT Health San Antonio, emphasised the advantages of having physicians trained in AI. He highlighted that such a dual education enhances traditional medical practice by improving diagnostic accuracy, personalising treatment plans, streamlining healthcare operations, and fostering groundbreaking medical research. Furthermore, integrating AI into healthcare is expected to reveal new application areas, enhancing patient care and operational efficiency.

By training physicians in AI, the program aims to place more doctors in leadership roles within the healthcare AI sector. This shift is intended to ensure that AI technologies are developed with a strong focus on patient-centred care rather than being driven solely by business interests. Physicians' involvement in the development of AI technologies is expected to align advancements more closely with patients' needs and outcomes, promoting a more effective and compassionate healthcare system.

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Published on : Thu, 13 Jun 2024