

APPLIED HUMAN CENTERED AI, MS

Contact

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Website

<https://ischool.syracuse.edu/academics/applied-human-centered-artificial-intelligence-masters-degree/>

Overview

The 31-credit Applied Human Centered AI Master's degree prepares students to use advanced machine learning packages and APIs with a human-centered approach across a range of domains (ex. business, government). At the heart of the program is a focus on the intricacies of the human-AI interaction and how to use AI packages (such as OpenAI LLMs), ensuring students are adept at utilizing Generative AI and other deep learning libraries in an ethical and effective manner. With a strong emphasis on hands-on projects, students will conclude the program by creating and reflecting on their application portfolio, showcasing their practical expertise and knowledge. In short, this program is designed to equip students with both the technical AI programming skills and the human-centered perspective needed to build responsible and user-friendly AI applications.

After completing the program, students will be able to:

1. Develop robust AI applications by harnessing deep learning libraries and APIs.
2. Describe potential ethical considerations that might arise when developing AI applications.
3. Articulate the complexities of human-AI interaction to improve human-AI collaboration.
4. Reflect upon and critically assess existing and potential AI applications.

Program Requirements

Code	Title	Credits
Required Core		
IST 664	Natural Language Processing	3
IST 675	Dynamics of Human AI Interaction	3
IST 687	Introduction to Data Science	3
IST 688	Building Human Centered AI Applications	3
IST 691	Deep Learning in Practice	3
IST 692	Responsible AI	3
IST 736	Text Mining	3

Concentrations

Concentrations allow students to select course work that matches their professional interests and planned career paths. Students are required to select one concentration below, and complete three classes, or 9 credits, from that concentration.

Exit Requirement

Students take IST 783 in their last semester or term of study. 1

Total Credits 31

Data Science

Code	Title	Credits
IST 659	Data Administration Concepts and Database Management	3
IST 686	Quantitative Reasoning for Data Science	3
IST 707	Applied Machine Learning	3
IST 718	Big Data Analytics	3

Cloud Computing

Code	Title	Credits
IST 615	Cloud Management	3
IST 659	Data Administration Concepts and Database Management	3
IST 714	Cloud Architecture	3
IST 769	Advanced Big Data Management	3

Self-Guided

Students can select any three IST graduate-level courses (9 credits) that provide a coherent experience related to Applied HCAI. Students should consult with the program director to ensure the appropriateness of the courses and consider how they will add to their knowledge and skillset. Courses outside of the iSchool must receive permission prior to registration.