



Course Description: Artificial Intelligence

This course will use curriculum developed by the University of Florida Computer and Information Science and Engineering department. In the process, participants will examine voice-based agents such as Alexa and Siri, chatbots, virtual characters, and non-playable characters in computer games.

Students will delve into how machine learning is used to construct solutions to difficult problems in computer vision, speech recognition, and decision making tasks such as medical diagnosis or credit card fraud detection.

Students will experiment with machine-learning software and examine how it “learns” by adjusting its internal representations. Students will take a closer look at speech recognition and then examine natural language understanding, including such applications as question answering and machine translation. Students will look at the different categories of jobs where AI skills are needed, the future of the robotics industry, how AI technologies are impacting the nature of work, and the education requirements for various types of AI and robotics careers.

The curriculum will challenge students to think critically, as they will be engaged in project-based learning to include real-world demonstration activities.