

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING (AI/ ML) GRADUATE ACADEMIC CERTIFICATE

AI/ML is changing the world on a grand scale. We are seeing its transformational impacts on public health, manufacturing, agriculture, financing, urban systems and smart communities, social welfare, criminal justice, environmental sustainability, and national security. This certificate is intended to train students to understand AI/ML fundamentals, master algorithms, and be able to use state-of-the-art tools to develop AI/ML solutions for real-world problems. The certificate leverages the expertise from faculty in several departments to give students a strong interdisciplinary background.

Important advising information can be found at <https://www.uidaho.edu/engr/departments/cs/degrees/cs> (<https://www.uidaho.edu/engr/departments/cs/degrees/cs/>).

All required coursework must be completed with a grade of B or better (O-10-b (<https://catalog.uidaho.edu/general-requirements-academic-procedures/o-miscellaneous/>)).

Code	Title	Hours
CS 575	Machine Learning	3
CS 588	Applied Data Science with Python	3
CS 574	Deep Learning	3
Take one of the following:		3
CS 570	Artificial Intelligence	
CS 587	Adversarial Machine Learning	
CS 598	Internship	
CS 572	Evolutionary Computation	
Total Hours		12

Courses to total 12 credits for this certificate

Understand, explain, and use the fundamental concepts and algorithms in machine learning and artificial intelligence.

Apply machine learning algorithms to analyze, model, and solve real-world problems.

Implement and evaluate machine learning solutions for common machine learning and artificial intelligence problems such as data classification and clustering.

Develop leadership and teamwork ability for work in and leading group projects.