AIML-ARTIFICIAL INTELLIGENCE MACHINE LEARNING

AIML 1310. Introduction to Artificial Intelligence
3 Credits (3)
Cover basic concepts and applications of artificial intelligence (AI), including AI project cycles. Focus on issues surrounding AI including ethics, bias, culture, regulations, and professional expectations.
Learning Outcomes
1. Describe issues relating to ethics, bias, design, training, and social impact of AI systems.
2. Summarize basic function and structure of AI systems.
3. Describe issues relating to ethics, bias, design, training, and social impact of AI systems.
4. Identify and describe the stages and significance of the AI project cycle.
5. Create AI models, utilizing training and testing with datasets.

AIML 1320. Fundamentals of Artificial Intelligence
4 Credits (4)
Compares and applies machine learning solutions for computer vision, natural language processing, and data analytics.
Prerequisite: CIST 2251.
Learning Outcomes
1. Apply an AI solution given a test data set and desired outcome.
2. Evaluate AI data sets.
3. Explain AI training and evaluation processes.
4. Plan the construction of a new AI solution given a problem to solve.

AIML 2310. Deep Learning
4 Credits (4)
Deep learning mimics the human brain enabling systems to make predictions with incredible accuracy. Students in this course identify the main deep learning algorithms and applications.
Prerequisite: AIML 1320.
Learning Outcomes
1. Identify deep learning algorithms.
2. Choose deep learning algorithms for specific applications.
3. Review and recommend applications that use deep learning.

AIML 2320. Natural Language Processing
3 Credits (3)
Natural language processing machines understand and respond to text or voice with text or speech of their own. Students in the course identify the main natural language processing algorithms and applications.
Learning Outcomes
1. Identify natural language processing algorithms.
2. Choose natural language algorithms for specific applications.
3. Review and recommend applications that use natural language processing.