

CIT 115 - INTRODUCTION TO GENERATIVE ARTIFICIAL INTELLIGENCE

Course Description

This course introduces the foundations of artificial intelligence and generative AI, emphasizing how models learn, generate, and impact society. Students explore AI tool selection, prompt engineering, model types, and responsible use of AI tools. Ethical, legal, and intellectual property issues are also examined. This course prepares students for the Certiport Generative AI Foundations certification. Group 2 course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Required Prerequisites

None

Recommended Prerequisites or Skills Competencies

Keyboarding and basic computer skills

General Education Outcomes supported by this course

Critical Thinking - Direct

Course Learning Outcomes

Knowledge:

- Define foundational concepts of Artificial Intelligence which includes terminology and different types of AI Systems.
- Explain the steps of the AI model lifecycle, including data preparation, training, validation, and deployment.
- Differentiate between various types of AI models and recommend the appropriate tool or technique for a given scenario.

Application:

- Create, evaluate, iterate, and refine effective prompts to achieve desired outputs from various AI tools and models.
- Critique the output of contemporary, industry-specific AI tools and models.

Integration:

- Articulate the transformative impact of AI applications across disciplines and careers.

Human Dimension:

- Reflect on the role of AI, distinguishing its benefits from its potential to replace learning and critical thinking.

Caring - Civic Learning:

- Evaluate the ethical, legal, and societal implications of using AI, including issues such as bias, privacy, intellectual property, and job displacement.
- Summarize limitations of AI models including hallucination, data dependency, and transparency.

Learning How to Learn:

- Formulate research questions and locate relevant resources to troubleshoot and solve AI-related problems.