



Artificial Intelligence

Course Description:

Artificial Intelligence is transforming the personal and professional lives of people across the world. AI refers to the development of computer systems that can perform tasks usually requiring human intelligence, such as visual perception, speech recognition, and even decision making.

Students participating in this course will learn how to apply these technologies to a number of undertakings to benefit organizations seeking to improve outcomes and productivity and compete in this new tech-driven economy.

Whether students are just starting out, building on existing IT skills, or sharpening their AI knowledge, the Artificial Intelligence program can help the student be more effective and do more in AI. Students will also learn the fundamentals of Python language Speech Recognition Systems, and Computer Vision and Image Analysis.

Course Outline:

Introduction to Artificial Intelligence (AI)

Introduction to Python for Data Science

Speech Recognition Systems

Computer Vision and Image Analysis

Course Outcomes:

At the end of the course the student will be able to:

- Identify the need for the python programming language for data science.
- Define the functions and lambda expressions in python programming
- Identify and handle errors and exceptions in your code.
- Explain the Computer Vision and Image Analysis.
- Summarize the Speech Recognition Systems
- Carry out Image operations such as detecting Objects, including corner, edge, and grid detection techniques with OpenCV and Python



- Perform image manipulation with OpenCV, including smoothing, blurring, thresholding, and morphological operations.

Career Opportunities

Graduates of this certificate program will be able to start their career with entry-level positions in medium to large-sized companies as an:

- Applications Analyst – computer systems
- Artificial Intelligence Analyst
- Computer Analyst
- Computer Simulations Analyst/ Computer Systems Analyst
- Computer Systems Development Coordinator

Course Duration:

24 Weeks (120 Hours)