

# Artificial Intelligence Certificate



**Smart assistants. Personalized recommendations. Real-time fraud detection.** Artificial Intelligence isn't just on the horizon—it's already woven into the fabric of our daily lives, transforming nearly every industry from healthcare to finance to manufacturing. At the heart of this transformation is the ability to automate complex decisions, solve problems faster, and unlock new possibilities. And today's employers need professionals who understand how to put AI to work—practically, strategically, and responsibly. The **Artificial Intelligence Certificate** from **Columbus State Community College** is a flexible, noncredit program designed to equip you with the in-demand AI skills employers need today, whether you're aiming to grow in your current role or exploring new opportunities in emerging tech.

## Why Choose This Program?

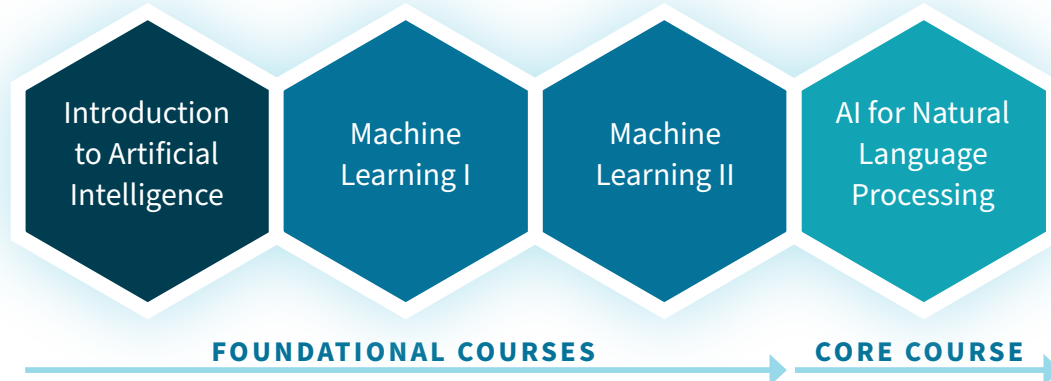
- Skills-focused and career-aligned:** Gain hands-on experience with real-world AI tools used across a variety of industries.
- Progressive, flexible learning:** Courses are structured to build technical and conceptual skills step by step.
- In-demand career foundation:** Employers increasingly need AI literacy. This certificate prepares you to support AI initiatives in your current or future workplace.

## What You'll Learn

- This program provides a comprehensive introduction to AI and machine learning tools and techniques.
- You'll develop practical experience applying:
- **Computer Vision**
  - **Generative AI**
  - **Natural Language Processing**
- You'll also strengthen your understanding of **mathematical, statistical, and logical reasoning**, and complete a **capstone project and learning portfolio** to demonstrate your ability to apply AI solutions to real-world problems.

## Who Should Enroll

- Students should have a working knowledge of **Relational Databases, SQL, and Python** programming.
- You qualify if you've completed Columbus State's IT certificate programs in **Data Analytics, Cybersecurity, or Software Development** — or have equivalent certifications, degrees or experience.



# Artificial Intelligence Certificate Courses

## FOUNDATION COURSES

### Introduction to Artificial Intelligence

Students will explore technical, moral, ethical, regulatory, and professional considerations related to AI in this introductory course. The course also includes hands-on experience with low-code and no-code tools to help learners understand core AI concepts, including the difference between general AI and machine learning, supervised and unsupervised learning, and various types of AI models.

### Machine Learning I

The first course in the Machine Learning courses series introduces students to Python-based applications in data acquisition, supervised and unsupervised learning, and in-depth data modeling.

### Machine Learning II

The second course in the Machine Learning series introduces students to additional concepts in machine learning algorithms, including reinforcement learning, neural networks, and deep learning. Students will also complete a project to apply these machine learning concepts in a real-world context.

## CORE COURSE

### AI for Natural Language Processing

This course prepares students to work with Natural Language Processing (NLP) models and tools used in real-world applications. Learners will explore how to acquire, curate, and visualize text data, as well as build pipelines for NLP models, including the technologies behind large language models.

For program dates, tuition and additional information visit [csc.edu/it-workforce](https://csc.edu/it-workforce) or email [acceleratedtraining@csc.edu](mailto:acceleratedtraining@csc.edu)



**Ready to Get Started?**

**Build the skills that employers are looking for.**

**Earn your Artificial Intelligence Certificate from Columbus State.**