

ARTIFICIAL INTELLIGENCE CERTIFICATE OF ACHIEVEMENT

The Artificial Intelligence Certificate is designed to provide students with a comprehensive understanding of AI and its applications in various fields, such as natural language processing, computer vision, robotics, and data analysis. The certificate program is aimed at students who want to develop the knowledge and skills necessary to design and implement AI solutions and to evaluate the ethical and social implications of AI.

The AI Certificate program is composed of a set of courses that cover the fundamentals of AI, including machine learning, deep learning, and neural networks. The courses also provide hands-on experience with AI tools and technologies and give students the opportunity to develop AI solutions for real-world problems. The program also includes courses on the ethical and social implications of AI, which prepare students to evaluate the impact of AI on society and develop AI solutions that are both effective and ethical.

The Artificial Intelligence Certificate is ideal for students who are interested in pursuing careers in a rapidly growing field that is in high demand by employers. The certificate program provides students with the knowledge and skills necessary to succeed in various industries, such as healthcare, finance, and transportation. The program is also suitable for students who want to pursue further education in AI, such as a bachelor's or master's degree in computer science or data science.

Code	Title	Units
Required Courses:		
CIT 103	Amazon Web Services (AWS) Academy: Cloud Foundations	4
CIT 100 or CS 110	Introduction to Personal Computers Fundamentals of Computer Science	3
CS 102 or CS 102H	Introduction to Python Programming Introduction to Python Programming - Honors	3
CS 188	Introduction to Artificial Intelligence (AI)	3
CS 189	Introduction to Machine Learning	3
CS 160 or CS 104 or MATH 180	Introduction to Data Science and Engineering Data Programming with Python Introduction to Data Science	4
Total Units		20

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Evaluate and recommend modifications to AI solutions, to ensure they address potential biases and societal impacts effectively.
- Demonstrate an understanding of the fundamentals of AI, including machine learning, deep learning, and neural networks.
- Apply AI tools and technologies to develop solutions for real-world problems.

- Use programming languages and software tools relevant to AI, such as Python and TensorFlow.
- Use data analysis and statistical modeling techniques to solve AI problems.
- Develop machine learning models for classification and regression problems.
- Use cloud computing services and platforms, such as Amazon Web Services (AWS) and Microsoft Azure, to build and deploy AI applications.
- Communicate effectively about AI concepts and techniques to technical and non-technical audiences.