COMPUTER VISION/DEEP LEARNING SPECIALIST (CERTIFICATE)

Business & Information Technology

Program website (https://www.harpercollege.edu/academics/business/ai-cloud-computing/deep-learning-certificate.php)

Program Overview

This 17 credit-hour certificate program provides hands-on training in designing, training, and deploying image recognition and pattern detection models. Students gain experience using industry-standard tools such as TensorFlow and OpenCV to develop applications that support automation, manufacturing, healthcare, and security systems. The program prepares students for careers in applied AI development and computer vision technologies.

Program Requirements

Code	Title	Hours
AIC 101	Careers in Artificial Intelligence, Machine Learning, and Cloud Computing	2
AIC 110	Introduction to Artificial Intelligence (AI)	3
AIC 120	Introduction to Machine Learning	3
AIC 130	Applied Math for Artificial Intelligence	3
AIC 140	Python Programming for AI	3
NET 105	Information Technology Fundamentals	3
Total Hours		**17**

Program Learning Outcomes

- design and train image recognition and pattern detection models using tools such as TensorFlow and OpenCV.
- apply deep learning algorithms to solve problems in automation, manufacturing, healthcare, and security.
- evaluate the performance and accuracy of trained models through testing and validation processes.
- integrate computer vision applications into broader AI and data systems.