



University Extension  
Professional Studies

# SHAPE THE FUTURE WITH AI EXPERTISE

## Professional Certificate in Applied Artificial Intelligence



### WHAT YOU'LL LEARN

**Master AI Concepts:** Understand core principles of AI, including machine learning and deep learning.

**Prepare and Train Data:** Apply techniques to collect, clean, and engineer data for AI models.

**Build Advanced Models:** Train, validate, and fine-tune AI models, including large language models (LLMs).

**Enhance Model Performance:** Implement retrieval-augmented generation (RAG) to optimize results.

**Deploy and Monitor Solutions:** Launch and manage AI models in real-world applications.

**Present Ethical Solutions:** Communicate results and apply responsible AI practices.



**TOTAL UNITS**  
12



**TUITION**  
\$4,050



**COMPLETION TIME**  
9-12 months



**FORMAT**  
Hybrid

AI is transforming the world, and now it's your turn to lead the charge. The **Professional Certificate in Applied Artificial Intelligence** empowers you with cutting-edge knowledge and hands-on skills to excel in one of today's fastest-growing industries.

You'll master data preparation, machine learning, and retrieval-augmented generation (RAG) while building and deploying your own AI projects. This program is designed to help you harness the power of AI, positioning you to make a meaningful impact and drive innovation.

Whether you're advancing in your current career or embarking on a new path, you'll graduate ready to seize exciting opportunities and shape the future. With AI expected to create 97 million new jobs by 2025, which one will you claim?



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## BENEFITS OF EARNING A CERTIFICATE

There are several reasons why, Bachelor's degree in hand, you might be considering continuing your studies. An upgraded education section on your resume can open the door to a new career, or, if you're already working, lead to a promotion and a higher salary. While you're working, going back to school is an excellent way to stay current in rapidly changing fields, or, if you've been away from the workforce for a while, to quickly get caught up in the latest trends, concepts, and advances.

While there are as many paths to follow, as there are reasons to follow them when approaching continuing education, there is enormous value in terms of time, financial investment, and personal flexibility while gaining practical training from working professionals in your industry that extends beyond the theory of the classroom and into the real world.

### KEY BENEFITS INCLUDE:

- UC quality curriculum
- Professional endorsements
- Schedule flexibility
- Variety of courses and programs
- Instruction from professional leaders in the industry

## PAY AS YOU GO



Pay per individual course as you register.

COURSE TUITION RANGE  
ALL 4 UNIT COURSES ARE **\$1,350**

\*Learn more about [tuition assistance](#).

## CAREER INFORMATION



### IN-DEMAND FIELD

Jobs are projected to grow at a rate of 9% over the next 5 years.



### STRONG EARNING POTENTIAL

Median Salary **\$168,660**



### VARIETY OF JOBS

- Application Developer
- Application Integration Engineer
- Developer
- Infrastructure Engineer
- Network Engineer
- Software Architect
- Software Developer
- Software Development Engineer
- Software Engineer
- Systems Engineer



### SKILLS FOR SUCCESS

- Database User Interface
- Development Environment Software
- Operating System Software
- Web Platform Development
- Customer Relationship Management CRM Software



### REALITY CHECK. WHAT YOU WILL DO ON THE JOB.

- Analyze project data to determine specifications or requirements
- Modify software programs to improve performance
- Supervise information technology personnel
- Apply mathematical principles or statistical approaches to solve problems in scientific or applied fields
- Assess database performance



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## STUDY PLAN

Our certificate programs are designed to be flexible, allowing you the option to take just a few courses or earn the complete certificate. If choosing to complete the certificate, we recommend you get the most out of your experience by following the suggested completion path below.

Required Courses		
QUARTER		UNITS
1	CS X456: Artificial Intelligence: Principles and Techniques	4
2	CS X456.01: Data and Data Preparation for AI	4
3	CS X456.02: AI Practicum (project-based)	4

## ARE YOU READY FOR YOUR NEXT STEP?

Schedule an appointment with an [Advisor](#) to get started. [extension.ucr.edu/advisors](http://extension.ucr.edu/advisors)

