

NEXT GEN AI STUDIO

Explore AI with NEXT GEN AI Studio — a hands-on learning academy where students build real-world intelligent apps and solutions.

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About NEXT GEN AI Studio

Artificial Intelligence (AI) is transforming industries—from healthcare and education to business and the arts. The NEXT GEN AI Studio is a 5-week immersive learning experience designed for high school juniors and seniors to explore the world of AI through hands-on projects, expert mentorship, and real-world tools.

Hosted at the University of Nebraska at Omaha (UNO), the program empowers students to move from curious learners to confident AI creators. Through collaborative sessions and guided experimentation, students explore how AI connects with their personal interests and future career paths.

Led by UNO's AI researchers and educators, this academy offers a supportive and engaging environment for students to discover the power and possibilities of artificial intelligence.

Who Is This Program For?

The NEXT GEN AI Studio is designed for high school juniors and seniors who are eager to explore the world of Artificial Intelligence — regardless of their technical background. Whether you're a budding coder, a creative thinker, or simply curious about emerging technologies, this program is built to meet you where you are.

This program is ideal for students who:

- Are preparing for college and want to stand out with real-world experience
- Are curious about Al and how it applies to everyday life
- Want to build intelligent tools and applications
 - Enjoy creative, hands-on learning

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Want to explore how AI can power their passions — from science and sports to music and entrepreneurship



Program Overview

The NEXT GEN AI Studio is a 5-week summer learning academy designed to introduce high school juniors and seniors to the fastevolving world of Artificial Intelligence. Students engage in in-person sessions at the University of Nebraska at Omaha, blending academic learning with creative problem-solving and collaboration.

Unlike traditional classes, this program emphasizes exploration, experimentation, and building. Participants interact directly with real AI tools and frameworks, guided by university mentors and AI Engineers. Each session builds confidence through hands-on activities that spark curiosity and encourage critical thinking.

Structured over multiple weeks, the studio balances instruction with project time and offers a supportive environment where students can freely explore how AI can power their ideas, interests, and future pathways.

Use Al not just to build apps, but to tell your story — in projects, portfolios, and standout college essays.

What You'll Build & Learn



Learning Outcomes

Al Literacy for the Future

Gain a foundational understanding of how AI is shaping industries, and why ethical, informed use of AI is essential for tomorrow's leaders.

Responsible AI Awareness

Understand privacy, bias, fairness, and responsible design practices preparing students to use AI thoughtfully and ethically.

Problem-Solving Mindset

Develop computational and critical thinking skills through open-ended challenges, peer collaboration, and iterative design.

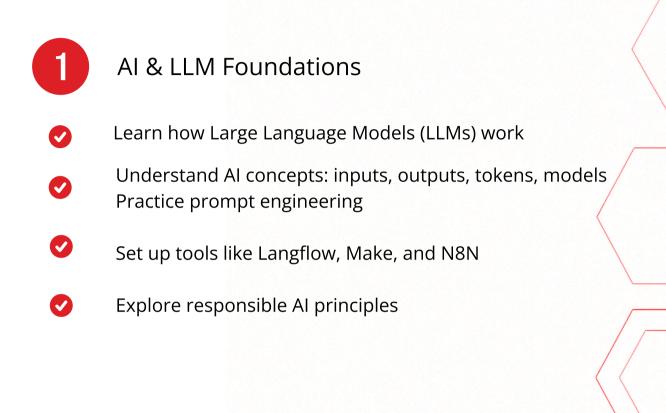
Real-World Readiness

Build confidence in using modern Al tools and workflows commonly seen in professional environments and higher education.

Communication & Collaboration

Enhance teamwork and presentation skills by pitching projects, receiving mentor feedback, and iterating based on critique.

5- Week Curriculum



Retrieval & Guardrails

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- Discover Retrieval-Augmented Generation (RAG)
- Build search-powered AI workflows
 - Add guardrails to make AI safe and predictable
 - Use documents and real-world data in your bots



Al Workflow Design

- Chain tools and LLMs to build complete agent flows
- Design automations using Make and N8N
- Use APIs and webhooks to integrate data
 - Create a functional prototype

Project Development

- Work in teams to design and test your AI project
- Build out user flows, input/output logic, and safety checks
- Collaborate, review, and refine your work
 - Prepare for presentations

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"AI isn't just for coders. It's for thinkers, creators, and problem solvers — like you."

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AI Experts



Mahadevan Subramaniam, Ph.D. Department Chair Computer Science



Xin Zhong, Ph.D. Associate Professor Computer Science



Prashanti Manda, Ph.D. Associate Professor Computer Science



Chun-Hua Tsai Ph.D. Assistant Professor Computer Science



Victor Winter, Ph.D. Professor Computer Science



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Jo	in the journey. Shape tomorrow. 📀 REGISTER NOW

