Ebook

Upskilling for Emerging AI Educators

Suggested steps and resources from NVIDIA.

Integrating AI Into Academic Coursework

Why AI Education Matters

Artificial intelligence is transforming numerous aspects of society, from healthcare to transportation, and understanding its principles is essential for future career readiness. Educators who integrate AI into their curriculum empower students to become critical thinkers and problem-solvers, preparing them to thrive in a future driven by innovation and technology.

Your Role as an Educator

As an educator, you have the opportunity to shape the next generation of AI professionals. NVIDIA's AI upskilling content provides you with resources to learn about and teach AI concepts in your classroom.

What Do the Steps Include?

Comprehensive self-learning content: Access a variety of resources, including hands-on workshops, self-paced courses, certificates of competency, instructor-certification opportunities, online seminars, and programs designed to enhance your understanding of AI.

Teaching materials: Utilize NVIDIA Teaching Kits, which feature lecture materials, recorded sessions, and hands-on projects. These resources help you develop engaging AI curricula tailored to your students' needs.

Instructor certification: As a certified instructor in the NVIDIA Deep Learning Institute (DLI) University Ambassador Program, bring the latest instructor-led workshops in cutting-edge technologies—deep learning, generative AI, large language models (LLMs), accelerated data science, and more—to your university, enriching your curriculum and giving your students the skills they need to jumpstart their future.

Note: Not all AI educators will be ready to complete all steps below, and some will be able to skip one or more steps depending on their existing experience and expertise.

Teaching AI Starts With a Foundation

Step 1: Register

To take advantage of all of NVIDIA's offerings, the first step is to register for the NVIDIA Developer Program. This free program provides access to practical training, development kits, forums, and the company's software library. By registering, you'll stay updated with constantly evolving content.

Register for the NVIDIA Developer Program >

What Can the Developer Program Help You Do?

Learn valuable skills: Multiple avenues of learning are available to members. Grow your skills with technical hands-on training and certifications. Explore research papers, technical documentation, webinars, and blogs. And watch thousands of technical sessions on NVIDIA On-Demand. Check out step 2 below for where to start.

Connect and grow: The Developer Program opens up many ways to stay connected. Engage with developers and technology experts in the developer forums. Learn from NVIDIA experts through webinars and workshops. And participate in hackathons, bootcamps, and exclusive events to collaborate and learn from peers.

Build applications with confidence: The Developer Program provides access to 650+ exclusive SDKs and models, as well as GPU-optimized software, model scripts, and containerized apps.

Explore All the Benefits of the Developer Program >

Step 2: Build Your Foundational Knowledge

Once registered, you'll have access to DLI content. We recommend beginning with these free short courses:

- **> AI for All: From Basics to GenAI Practice**
- **> Generative AI Explained**
- **> Building a Brain in 10 Minutes**
- **> A Beginner's Guide to Autonomous Robots**
- **> Accelerate Data Science Workflows with Zero Code Changes**

Step 3: Learn About Educator Programs and Real Classroom Adoption

Watch recorded sessions about NVIDIA's Educator Programs, and learn how instructors around the world are integrating freely available AI and accelerated computing teaching materials from NVIDIA into their curricula:

- **Teaching Kits for Educators: Priming University Students for the AI and Accelerated Computing Future**
- **Priming Researchers and Students for AI and Accelerated Computing Breakthroughs With Self-Sustaining Training Programs**
- **Learn How Educators Are Integrating Generative AI, Simulation, and Design Into Their Curricula**

Next, explore similar sessions and articles on more specific subject areas

- **Deep learning**
- **Generative AI and LLMs**
- **Edge AI and robotics**
- **Accelerated data science**
- **Graphics and NVIDIA Omniverse™**
- **Science and engineering**

Step 4: Get Access to NVIDIA Teaching Kits

After completing the foundational enrichment, apply for access to NVIDIA Teaching Kits. These kits provide downloadable, source-level teaching materials and structured online courses that you as an educator can use to teach yourself and create a robust curriculum for your students.

The kits include:

- Lecture slide decks
- Lecture videos
- Practical labs and projects
- Google Colab credit for testing labs
- DLI courses with certificate opportunities

Once your application for the Teaching Kit Program is approved, you can download any or all of the Teaching Kits. *After downloading, be sure to follow the instructions inside the kits to request access to promo codes for online, self-paced courses for you and your students. Doing this will enable you and your students to take the courses in the next step for free.*

Apply for Teaching Kits >

Step 5A: Upskill With Teaching Kits and Self-Paced Courses

First, immerse yourself in the most relevant Teaching Kits for you. Then, dive into the below suggested hands-on courses to deepen your understanding and prepare to teach the latest topics in deep learning, generative AI and large language models, science and engineering, data science, graphics, and simulation. Some of the longer courses offer certificates of competency based on assessments. *You'll need a Teaching Kit promo code from step 4 to take some of these courses for free.*

Note: These self-paced courses and the instructor-led workshops in step 5B are all part of **NVIDIA Training Learning Paths***.*

Self-Paced Courses in Deep Learning

- **Getting Started With Deep Learning**
- **Getting Started with Highly Accurate Custom ASR for Speech AI**
- More in the **Deep Learning Learning Path**

Self-Paced Courses in Generative AI and Large Language Models

- > Introduction to Transformer-Based Natural Language Processing
- > Rapid Application Development with Large Language Models
- > More in the Generative AI and LLMs Learning Path

Self-Paced Courses in Computer Vision and Video Analytics

- > Getting Started With Image Segmentation
- > Building Real-Time Video AI Applications
- > More in the Computer Vision and Video Analytics Learning Path

Self-Paced Courses in Accelerated Data Science

- > Accelerating End-to-End Data Science Workflows
- > NVIDIA RAPIDS™ Accelerator for Apache Spark
- > More in the Data Science Learning Path

Self-Paced Courses in Robotics

- > Getting Started: Simulating Your First Robot in Isaac Sim
- > Getting Started with AI on Jetson Nano
- > More in the Robotics Learning Path

Self-Paced Courses in Simulation, Data Modeling, and Design

- > Developing an Omniverse Kit-Based Application
- > Learn OpenUSD: Learning About Stages, Prims, and Attributes
- > More in the Simulation, Data Modeling, and Design Learning Path

Step 5B: Upskill With Instructor-Led Workshops

You also have the opportunity to attend public, instructor-led workshops taught by DLI-certified instructors who are experts in their fields. These workshops are offered on a limited basis in particular time zones. NVIDIA routinely offers these workshops at large conferences as well. And, on a very limited basis, these workshops are offered regionally free for students, researchers, and faculty. All of these workshops offer a certificate of competency based on hands-on assessments.

- > Upcoming public workshops offered by NVIDIA and NVIDIA partners
- > NVIDIA Training at GTC
- > Free student and faculty development virtual workshops (when available by region)

Contact NVDLI@nvidia.com for information on

academic pricing for public, instructor-led workshops.

Step 6 (Optional): Technical Certification

Whether you're a seasoned professional or just starting your journey in the industry, certification is a valuable way to advance your career. Certifications serve as tangible evidence of your expertise, proficiency, and commitment to continuous learning. Showcase your skills and advance your career by getting certified by NVIDIA. *Note: This level of certification is more in-depth than the course certificates of competency mentioned in previous steps.*

> **Overview of NVIDIA credentials and certifications**

> **Overview of NVIDIA technical certifications**:

- **NVIDIA-Certified Associate: Generative AI and LLMs***
- **NVIDIA-Certified Associate: Multimodal Generative AI***
- **NVIDIA-Certified Professional: Accelerated Data Science***

**Note: The two Generative AI exams are free for educators by following instruction inside the Generative AI Teaching Kit*

Step 7: Instructor Certification

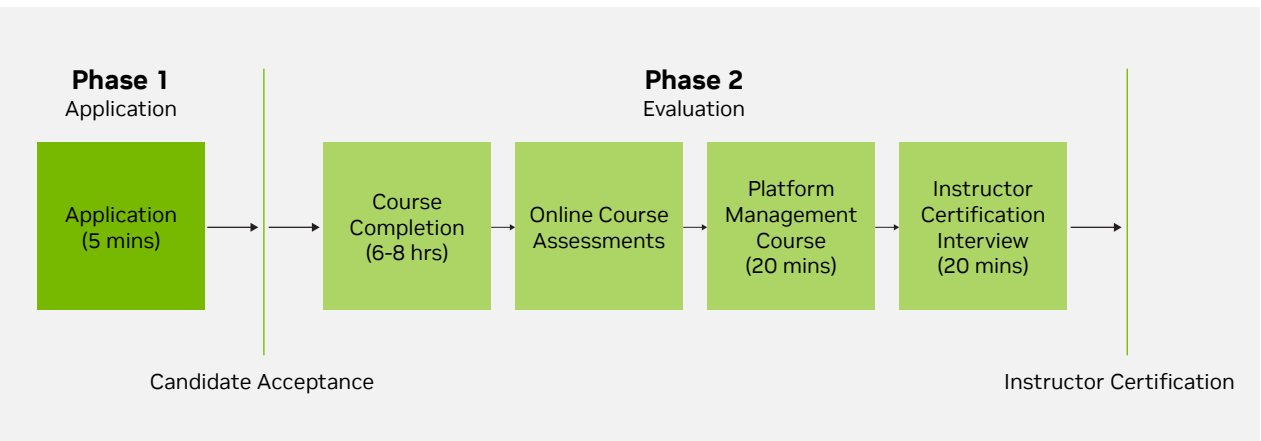
Open up a new world of opportunity for you, your students, and your academic community with the DLI University Ambassador Program. As an ambassador, you can bring free instructor-led workshops in cutting-edge technologies—AI, accelerated computing, data science, and more—to your university. Ambassadors are DLI-certified instructors in academia with plenty of benefits.

As a DLI-certified instructor candidate, you'll complete workshop-specific evaluations that include technical qualification, subject-matter expertise, mastery of workshop content, classroom-delivery skills, and training on effective use of the DLI platform.

To qualify for membership in the University Ambassador Program, you need to be currently affiliated with an academic institution. You'll also need to satisfy general technical qualifications for the technology covered in the workshop:

> **How to apply to the DLI University Ambassador Program**

> **Benefits of the Ambassador Program**



Explore Additional Resources

NVIDIA On-Demand

NVIDIA's online video library offers a wide range of technical lessons and lectures from GTC, NVIDIA's technology conference, and other leading conferences. Also available are podcasts, demos, research articles, and learning videos on AI, climate science, language processing, autonomous machines, design, Omniverse, and more.

Explore content for:

> NVIDIA Training Labs On-Demand

> Generative AI

> Deep learning

> Researchers and educators

NVIDIA Webinars

Webinars let students and educators dive deeper into specific topics and discover innovations in AI, deep learning, robotics, autonomous machines, data science, and more.

> AI For All: Educators and Students

> What's New with NVIDIA Certification

> How to Accelerate Your Career in AI

> Accelerating Gene Variant Detection With Deep Learning

> Deploying Generative AI in Production

> Empowering Future Engineers and Scientists With AI and NVIDIA Modulus

> Essential Training and Tips to Accelerate Your Career in AI

Check Out the Full Webinar Catalog >

NVIDIA YouTube Page

Discover a wide range of videos on the NVIDIA YouTube page, covering the latest in AI technology, tutorials, and expert talks. Stay updated and enhance your knowledge by watching our curated content, including hands-on technical demos and insightful discussions.

Visit the YouTube Channel >

Connect on Social

Don't miss out on the conversations happening on our social platforms. Follow us to stay updated on the latest trends, insights, and events in AI education.

> LinkedIn

> X

> Facebook

> Instagram

Questions? Requests? Get in Touch.

We'd love the opportunity to support and collaborate with your school or organization. Contact us at: developer.nvidia.com/contact

To learn more how NVIDIA is helping to usher in the next era of computing in higher education and research, visit: nvidia.com/higher-education-research/

NVIDIA