



Tamkang
University



國立臺北大學
National Taipei University



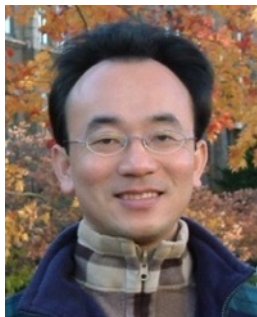
NVIDIA AI 國際認證與職涯發展

(NVIDIA AI International Certification and Career Development)

Time: 13:10-15:00, Friday, November 28, 2025

Place: B206, 淡江大學商管大樓, TKU

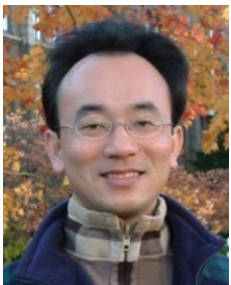
Host: 王元慶



戴敏育 教授 (Prof. Min-Yuh Day)

國立臺北大學 資訊管理研究所 所長
金融科技暨綠色金融研究中心 主任





戴敏育 教授

Prof. Min-Yuh Day



Director, Information Management, NTPU

Director, Fintech and Green Finance Center (FGFC), NTPU

Director, Intelligent Financial Innovation Technology, IFIT Lab, IM, NTPU

Visiting Scholar, IIS, Academia Sinica

Ph.D., Information Management, NTU

Publications Co-Chairs, International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2013-)

Program Co-Chair, IEEE International Workshop on Empirical Methods for Recognizing Inference in Text (IEEE EM-RITE 2012-)

Publications Chair, The IEEE International Conference on Information Reuse and Integration for Data Science (IEEE IRI 2007-)



Outline

1. NVIDIA AI International Certification
2. AI Career Development

Generative AI

Agentic AI

Physical AI

Generative AI, Agentic AI, Physical AI

Physical AI

Self-driving cars
General robotics

Agentic AI

Coding assistants
Customer service
Patient care

Generative AI

Digital marketing
Content creation

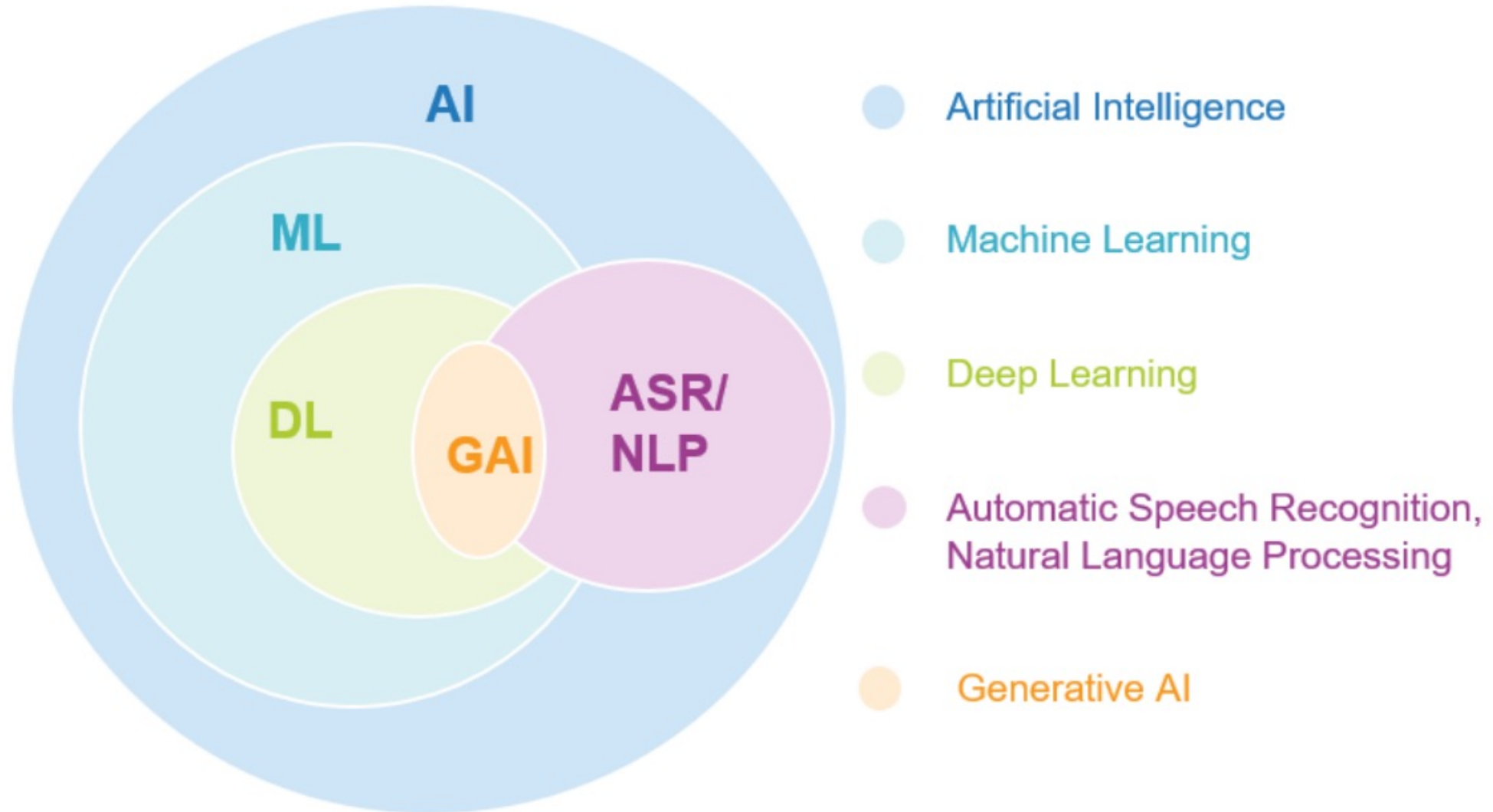
Perception AI

Speech recognition
Deep recommender systems
Medical imaging

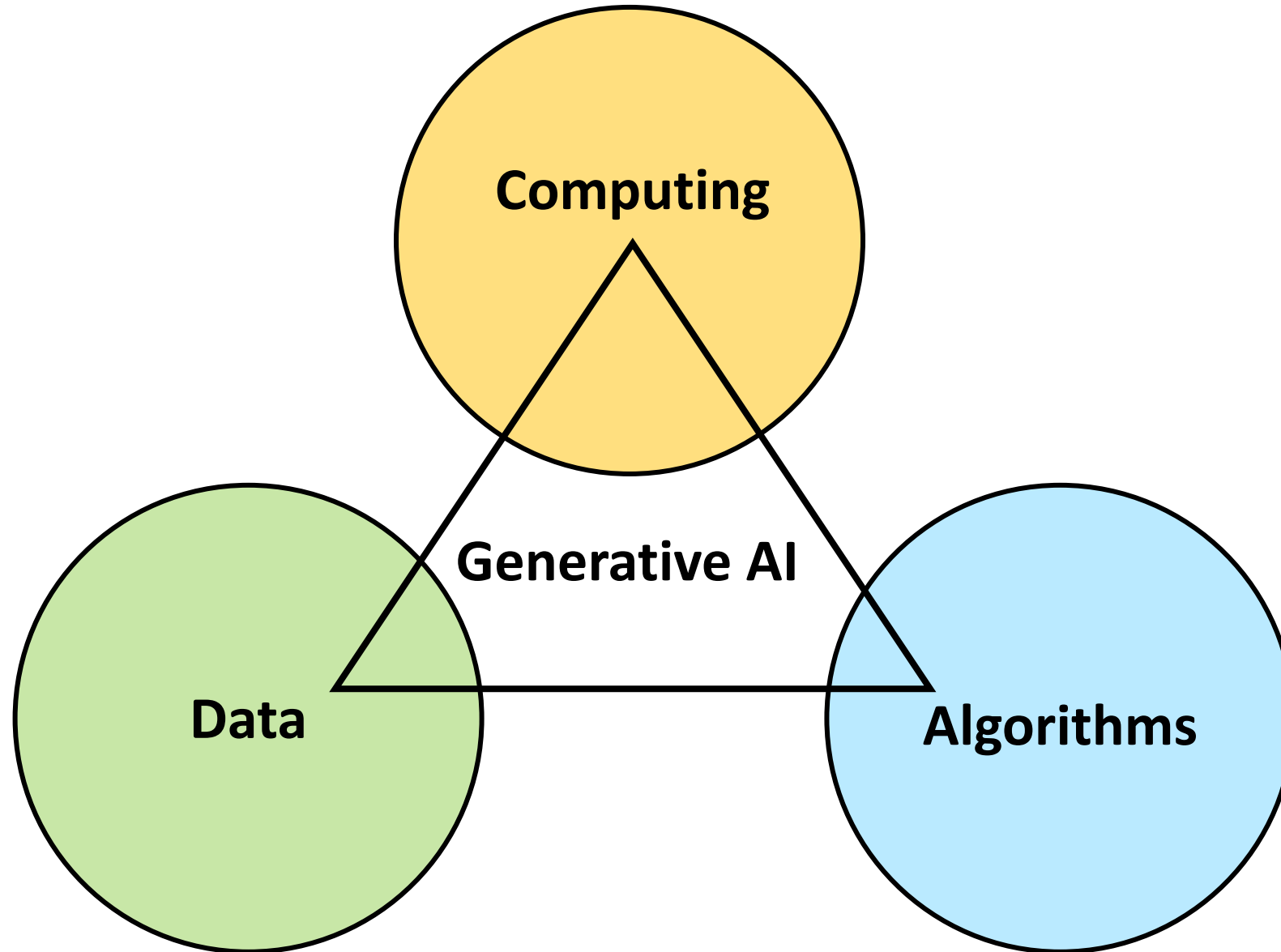
2012 AlexNet

Deep learning breakthrough

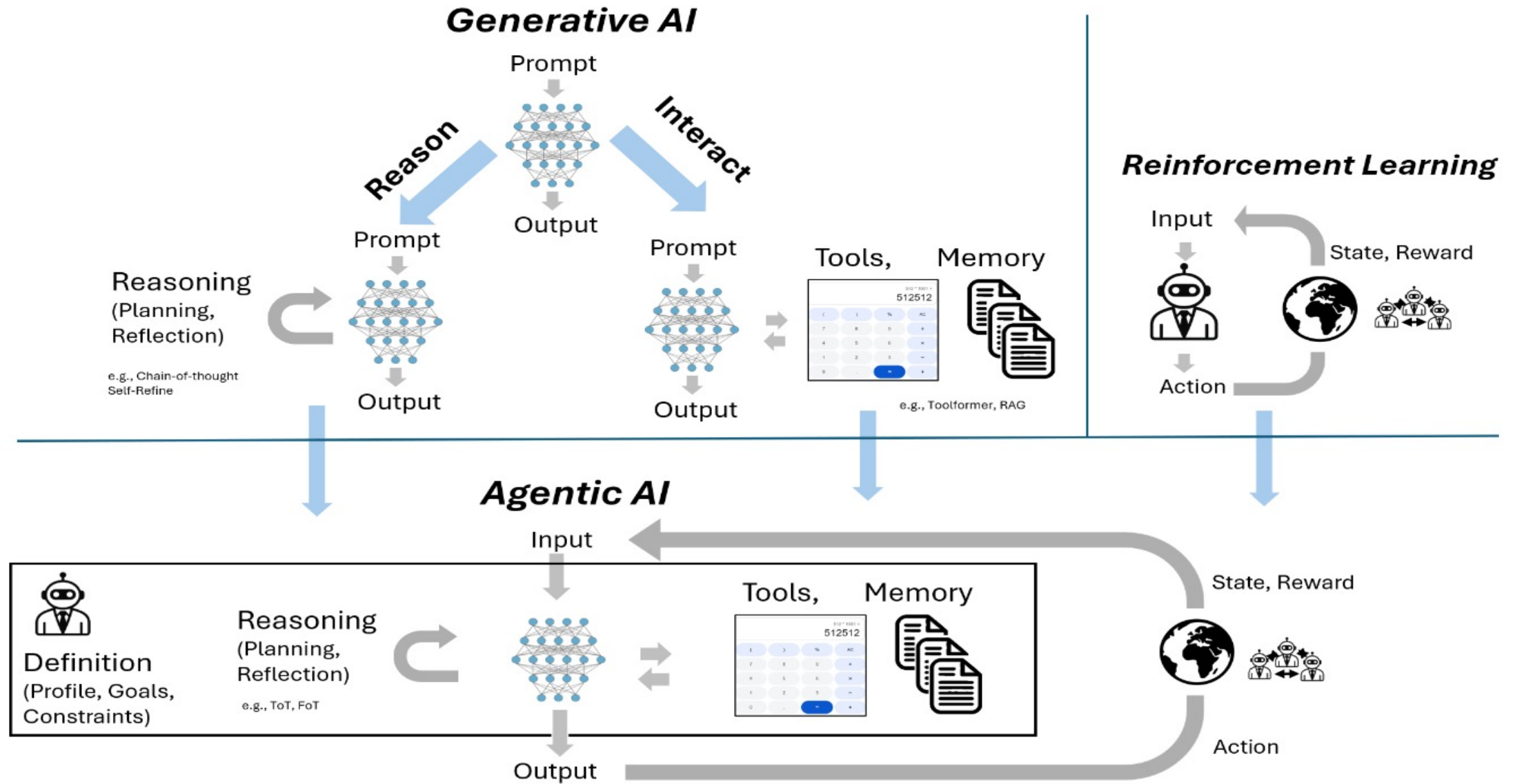
AI, ML, DL, Generative AI



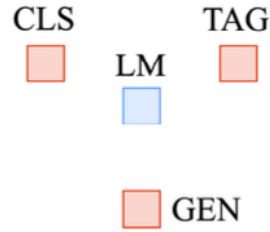

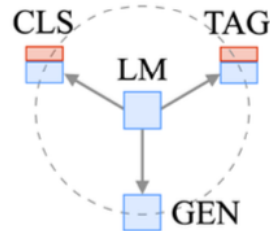
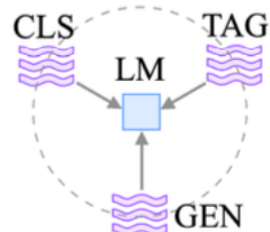
Generative AI



From Generative AI to Agentic AI



Four Paradigms in NLP (LM)

Paradigm	Engineering	Task Relation
a. Fully Supervised Learning (Non-Neural Network)	Feature (e.g. word identity, part-of-speech, sentence length)	
b. Fully Supervised Learning (Neural Network)	Architecture (e.g. convolutional, recurrent, self-attentional)	
Transfer Learning: Pre-training, Fine-Tuning (FT)		
c. Pre-train, Fine-tune	Objective (e.g. masked language modeling, next sentence prediction)	
GAI: Pre-train, Prompt, and Predict (Prompting)		
d. Pre-train, Prompt, Predict	Prompt (e.g. cloze, prefix)	

NVIDIA AI

International Certification

Developer

1. NVIDIA-Certified Associate: Generative AI LLMs (NCA-GENL)
2. NVIDIA-Certified Associate: Multimodal Generative AI (NCA-GENM)
3. NVIDIA-Certified Professional: Generative AI LLMs (NCP-GENL)
4. NVIDIA-Certified Professional: Agentic AI (NCP-AAI)
5. NVIDIA-Certified Professional: Accelerated Data Science (NCP-ADS)
6. NVIDIA-Certified Professional: OpenUSD Development (NCP-OUUSD)

AI Career Development

1. Set Goals

- Lock in 1-2 AI domains that interest you (e.g., Computer Vision, NLP) and focus deeply.

2. Build Foundations

- Complete rigorous coursework in programming and statistics.
- Leverage online resources to strengthen your machine learning theory.

3. Build Projects

- For every technique you learn, design a hands-on mini-application.
- Learn by doing and compile your results into a portfolio.

4. Earn Certifications

- Obtain industry-recognized credentials like NVIDIA DLI certificates to validate your practical skills and enhance your resume.

5. Pursue Internships

- Leverage your project portfolio and certifications to actively secure industry internships during your junior and senior years.

6. Iterate Continuously

- AI technology evolves rapidly. Maintain your passion for learning and keep upgrading your skills by emerging trends (e.g., LLMs, Agentic AI).

NVIDIA Certified Instructors (12 from Taiwan)

NVIDIA > Shop Drivers Support Q ￼










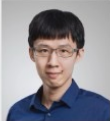


Don't miss NVIDIA CEO Jensen Huang's GTC keynote March 18. Join early for the pregame event, 01d:04h:15m:12s [Add to Calendar](#)

Deep Learning Institute Find Training Self Paced Courses Instructor-Led Workshops Educator Programs ...

Filters

Workshop Certification Location [1] Organization Specialization Reset filters Search for instructors by name, Minimum

Sort by: Name A-Z















Chi-Hung Chuang  Chung Yuan Christian University in Featured Workshop Fundamentals of Deep Learning, Taiwanese	Chia Yu Hsu  National Taiwan University of Science and Technology(NTUST) Featured Workshop Applications of AI for Predictive Maintenance, Taiwanese	Chien-Yu Chen  National Taiwan University (NTU) Featured Workshop Fundamentals of Deep Learning, Taiwanese
Chun-Yi Lee  National Taiwan University (NTU) Platinum Instructor Featured Workshop Fundamentals of Deep Learning, Taiwanese	David Tseng  Cavedu Platinum Instructor Featured Workshop Getting Started with AI on Jetson Nano, Taiwanese	Hsinmin Lu  National Taiwan University (NTU) Featured Workshop Fundamentals of Deep Learning, English
Min-Yuh Day  National Taipei University (NTPU) in Featured Workshop Building RAG Agents with LLMs, English	Ming-Che Chen  Southern Taiwan University of Science and Technology(STUST) Featured Workshop Getting Started with AI on Jetson Nano, Taiwanese	MingChe Hu  Chung Yuan Christian University Featured Workshop Fundamentals of Deep Learning, Taiwanese
Ping-Chun Hsieh  National Yang Ming Chiao Tung University (NYCU) Featured Workshop Fundamentals of Deep Learning, English	Po-Chih Kuo  National Tsing Hua University (NTHU) in Featured Workshop Fundamentals of Deep Learning, English	Shu-Kai Hsieh  National Taiwan University (NTU) in Featured Workshop Fundamentals of Deep Learning, Taiwanese

NVIDIA Certified Instructors (14 from Taiwan) (2 from NTPU)(April 2025)

Filters

Workshop Certification Location [1] Organization Specialization Reset filters Search for instructors by name:

Sort by: Name A-Z

Chi-Hung Chuang  Chung Yuan Christian University Featured Workshop Fundamentals of Deep Learning, Taiwanese	Chia Yu Hsu  National Taiwan University of Science and Technology (NTUST) Featured Workshop Applications of AI for Predictive Maintenance, Taiwanese	Chien-Yu Chen  National Taiwan University (NTU) Featured Workshop Fundamentals of Deep Learning, Taiwanese
Chun-Yi Lee  National Taiwan University (NTU) Platinum Instructor Featured Workshop Fundamentals of Deep Learning, Taiwanese	David Tseng  Cavedu Platinum Instructor Featured Workshop Building Transformer-Based Natural Language Processing Applications, Taiwanese	Hsinmin Lu  National Taiwan University (NTU) Featured Workshop Fundamentals of Deep Learning, English
Hung-Wen Chen  National Tsing Hua University (NTHU) Featured Workshop Fundamentals of Deep Learning, Taiwanese	Ko-Chia Yu  National Taipei University (NTPU) Featured Workshop Building RAG Agents with LLMs, English	Min-Yuh Day  National Taipei University (NTPU) Featured Workshop Building RAG Agents with LLMs, English
Ming-Che Chen  Southern Taiwan University of Science and Technology (STUST) Featured Workshop Getting Started with AI on Jetson Nano, Taiwanese	MingChe Hu  Chung Yuan Christian University Featured Workshop Fundamentals of Deep Learning, Taiwanese	Ping-Chun Hsieh  National Yang Ming Chiao Tung University (NYCU) Featured Workshop Fundamentals of Deep Learning, English
Po-Chih Kuo  National Tsing Hua University (NTHU) Featured Workshop Fundamentals of Deep Learning, English	Shu-Kai Hsieh  National Taiwan University (NTU) Featured Workshop Fundamentals of Deep Learning, Taiwanese	

NVIDIA Certified Instructor Directory Bio



[Shop](#) [Drivers](#) [Support](#)

Deep Learning Institute

[Find Training](#)

[Self-Paced Courses](#)

[Workshops](#)

[Certification](#)

[Educator Programs](#)



[Back To Search](#)

Min-Yuh Day



Dr. Min-Yuh Day is a Professor in the Graduate Institute of Information Management at National Taipei University, Taiwan. He holds a Ph.D. degree in Information Management from National Taiwan University, Taiwan. His research focuses on AI, generative AI, ESG green fintech, big data, e-commerce, and biomedical informatics, with publications in top journals and conferences.

Organization

National Taipei University (NTPU)

Location

Taiwan

Workshop Certifications

- > Building RAG Agents with LLMs, English
- > Generative AI with Diffusion Models, English
- > Fundamentals of Deep Learning, English

<https://www.nvidia.com/en-us/training/instructor-directory/bio/?instructorId=003Vv00000G3pBQIAZ>

NVidia Certifications and Teaching Resources

Provided by Prof. Ko-Chia Yu (Dec. 5, 2024)

- NVidia Ambassador Program Application (可能需要登入，需要先行完成課程)
 - <https://developer.nvidia.com/dli/cip/application-amb>
 - (<https://developer.nvidia.com/dli/cip/programguide> 認證教師須知)
 - (<https://developer.nvidia.com/dli/workshoprequirements> 認證教師資格需求)
- 參加Developer Program會得到一個免費課程(由此連結進入)
 - <https://developer.nvidia.com/join-nvidia-developer-program>
- NVidia Course Roadmap
 - <https://nvdam.widen.net/s/brxsxxtskb/dli-learning-journey-2009000-r5-web>
- Course Catalog
 - <https://nvdam.widen.net/s/wlbgbqr7cj/nvidia-learning-training-course-catalog>
- Teaching Kit Catalog
 - <https://resources.nvidia.com/en-us-institute-teach-kits>

NVidia Certificates

(2024/12-2025/08)

1. NVIDIA Certified University Ambassador: Building Agentic AI Applications with LLMs [[Certificate](#)] (2025/03)
2. NVIDIA Certified Instructor: Fundamentals of Deep Learning [[Certificate](#)] (2025/08)
3. NVIDIA Certified Instructor: Generative AI with Diffusion Models [[Certificate](#)] (2025/07)
4. NVIDIA Certified Instructor: Building RAG Agents with LLMs [[Certificate](#)] (2025/03)
5. NVIDIA Certificate of Competency: Fundamentals of Deep Learning [[Certificate](#)] (2025/07)
6. NVIDIA Certificate of Competency: Building LLM Applications With Prompt Engineering [[Certificate](#)] (2025/06)
7. NVIDIA Certificate of Competency: Getting Started with Deep Learning [[Certificate](#)] (2025/04)
8. NVIDIA Certificate of Competency: Rapid Application Development with Large Language Models (LLMs) [[Certificate](#)] (2025/03)
9. NVIDIA Certificate of Competency: Accelerating End-to-End Data Science Workflows [[Certificate](#)] (2025/02)
10. NVIDIA Certificate of Competency: Generative AI with Diffusion Models [[Certificate](#)] (2025/02)
11. NVIDIA Certificate of Competency: Building RAG Agents with LLMs [[Certificate](#)] (2024/12)
12. NVIDIA Certificate of Competency: Introduction to Transformer-Based Natural Language Processing [[Certificate](#)] (2024/12)

NVidia Certificates

(2024/12-2025/11)

Deep Learning Institute

Find Training

Self Paced Courses

Instructor-Led Workshops

Educator Programs

Enterprise Solutions

Certification

Resources

Search



Monthly Activity

Skill Points 0

Time Spent

Courses in Progress 18

Courses Completed 14

Watched Videos

Assessments

Skills

Certificates



Introduction to
Transformer-
Based Natural
Language
Processing



Building RAG
Agents with
LLMs



Building RAG
Agents with
LLMs



Accelerating
End-to-End Data
Science
Workflows



Generative AI
with Diffusion
Models



Building Agentic
AI Applications
with LLMs



Building Agentic
AI Applications
with LLMs



Rapid
Application
Development
with Large
Language
Models (LLMs)



Getting Started
with Deep
Learning



Building Agentic
AI Applications
with LLMs -
Instructor
Material



Domain-
Adaptive Pre-
Training:
Tailoring LLMs
for Specialized
Applications



Fundamentals of
Deep Learning



基於擴散模型的
生成式人工智慧



Building LLM
Applications
With Prompt
Engineering



Generative AI
with Diffusion
Models



Getting Started
with Deep
Learning



Rapid
Application
Development
with Large
Language
Models (LLMs)



Building Agentic
AI Applications
with LLMs



Building Agentic
AI Applications
with LLMs



Generative AI
with Diffusion
Models



Accelerating
End-to-End Data
Science
Workflows



Building RAG
Agents with
LLMs



Building RAG
Agents with
LLMs



Introduction to
Transformer-
Based Natural
Language
Processing

Spring 2025

Generative AI Innovative Applications

Sustainability and ESG Data Analytics

Introduction to Sustainability and ESG Data Analytics

1141ESGDA01

MBA, IM, NTPU (M5265) (Fall 2025)

Wed 2, 3, 4 (9:10-12:00) (B3F17)

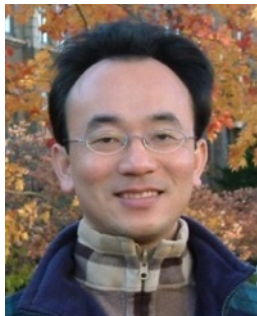
 **NVIDIA**
University Ambassador
Certified Instructor

 **aws**
educate | Cloud
Ambassador
2020 Cohort


aws academy
Accredited
Educator

aws certified
Cloud
Practitioner

aws certified
Solutions
Architect
Associate



Min-Yuh Day, Ph.D,
Professor and Director

Institute of Information Management, National Taipei University

<https://web.ntpu.edu.tw/~myday>



[https://meet.google.com/
miy-fbif-max](https://meet.google.com/miy-fbif-max)



Syllabus

Week Date Subject/Topics

1 2025/09/10 Introduction Sustainability and ESG Data Analytics

**2 2025/09/17 Environmental, Social, and Governance (ESG) in
Net-Zero Digital Transformation**

3 2025/09/24 Data Science for Sustainability and ESG

4 2025/10/01 Case Study on Sustainability and ESG Data Analytics I

**5 2025/10/08 Web 3.0 and Big Data Analysis in Fintech, Green and
Sustainable Finance**

6 2025/10/15 ESG Data Gathering, Analysis, and Visualization

Syllabus

Week	Date	Subject/Topics
------	------	----------------

7	2025/10/22	NVIDIA Building RAG Agents with LLMs Part I: LLM Services and AI Foundation Models
---	------------	---------------------------------------------------------------------------------------

8	2025/10/29	Self-Learning
---	------------	---------------

9	2025/11/05	Midterm Project Report
---	------------	------------------------

10	2025/11/12	NVIDIA Building RAG Agents with LLMs Part II: Document Loading, Chunking, and Embeddings
----	------------	---------------------------------------------------------------------------------------------

11	2025/11/19	NVIDIA Building RAG Agents with LLMs Part III: Retrieval-Augmented Generation with Vector Stores and RAG Evaluation
----	------------	---------------------------------------------------------------------------------------------------------------------------

Syllabus

Week Date Subject/Topics

12 2025/11/26 Case Study on Sustainability and ESG Data Analytics II

**13 2025/12/03 Artificial Intelligence of things (AIoT) in ESG and
Sustainability Applications**

14 2025/12/10 Generative AI for ESG Rating and Reporting Generation

15 2025/12/17 Final Project Report I

16 2025/12/24 Final Project Report II



University Ambassador



This certificate acknowledges that

Min-Yuh Day

has been certified to deliver NVIDIA instructor-led workshop for
academia

A handwritten signature in black ink, appearing to read "Greg Estes", written over a horizontal line.

Greg Estes

Vice President, NVIDIA

Issue Date: : March 7, 2025

Ambassador Certification ID: cCFh1ZWWTvqKTq7dcKkEWw

<https://learn.nvidia.com/certificates?id=cCFh1ZWWTvqKTq7dcKkEWw>



Certified Instructor



This certificate acknowledges that

Min-Yuh Day

has been certified to deliver the instructor-led workshop

Building RAG Agents with LLMs

A handwritten signature in black ink, appearing to read "Greg Estes", written over a horizontal line.

Greg Estes

Vice President, NVIDIA

Issue Date: : March 7, 2025

Certification ID: OVmqY4cSSya0BdMQBWHxzw

<https://learn.nvidia.com/certificates?id=OVmqY4cSSya0BdMQBWHxzw>



Certified Instructor



This certificate acknowledges that

Min-Yuh Day

has been certified to deliver the instructor-led workshop

Fundamentals of Deep Learning

A handwritten signature in black ink, appearing to read "Greg Estes", written over a horizontal line.

Greg Estes

Vice President, NVIDIA

Issue Date: : August 1, 2025

Certification ID: XhLz9YFzRPyew64462TNjQ

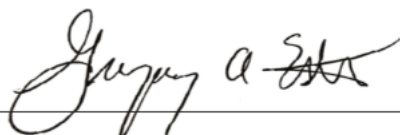
Certificate of Completion

This certificate is awarded to

Min-Yuh Day

for successfully completing

Building RAG Agents with LLMs



Greg Estes

Vice President, NVIDIA

Issue Date: : December 8, 2024

Certification ID: ed-qOCIMQatzU8SNUNxgw |

https://learn.nvidia.com/certificates?id=ed-qOCIMQatzU8SNUNxgw/courses/course?course_id=course-v1:DLI+S-FX-15+V1

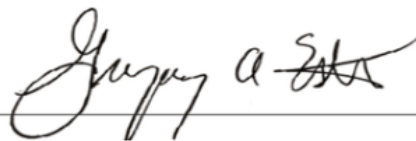
<https://learn.nvidia.com/certificates?id=ed-qOCIMQatzU8SNUNxgw>

Certificate of Competency

This certificate is awarded to

Min-Yuh Day

for demonstrating competence in the completion of
Generative AI with Diffusion Models



Greg Estes

Vice President, NVIDIA

Issue Date: : February 28, 2025

Certification ID: q3oo-oBhTQKtyCCote2E-Q



Certificate of Competency

This certificate is awarded to

Min-Yuh Day

for demonstrating competence in the completion of

Getting Started with Deep Learning

A handwritten signature in black ink, appearing to read "Greg A. Estes", written over a horizontal line.

Greg Estes

Vice President, NVIDIA

Issue Date: : April 13, 2025

Certification ID: ny50I3TXT5W8Q_6kENklaQ

NVIDIA Developer Program

<https://developer.nvidia.com/join-nvidia-developer-program>

NVIDIA Deep Learning Institute (DLI)

<https://learn.nvidia.com/>

Get NVIDIA DLI Certificate Before the NVIDIA Workshop

- **Step 1. Join NVIDIA Developer Program (Free)**
<https://developer.nvidia.com/join-nvidia-developer-program>
- **Step 2. Visit NVIDIA Deep Learning Institute (DLI)**
<https://learn.nvidia.com/>
- **Step 3. Enroll "Building RAG Agents with LLMs" Self-Paced Course (Free)**
https://learn.nvidia.com/courses/course-detail?course_id=course-v1:DLI+S-FX-15+V1

Get NVIDIA DLI Certificate

- Welcome to NVIDIA DLI "**Building RAG Agents with LLMs**" **workshop**.
- Step 1. Visit <https://learn.nvidia.com/dli-event>
- Step 2. Enter the event code: **NTPU_RAG_AMBASSADOR_DE25**
- Step 3. Complete the NVIDIA DLI course and review the course datasheet at <https://developer.nvidia.com/dli/getready>

Get NVIDIA DLI Certificate Workshop

DLI Event

Event Code

NTPU_RAG_AMBASSADOR_DE25

Enter your event code.

ENROLL

Welcome to NVIDIA DLI

" Building RAG Agents with LLMs "
workshop.

Step 1. Visit <https://learn.nvidia.com/dli-event>

Step 2. Enter the event code:

NTPU_RAG_AMBASSADOR_DE25

<https://learn.nvidia.com/dli-event>

Building RAG Agents with LLMs

Deep Learning Institute Find Training Self Paced Courses Instructor-Led Workshops Educator Programs Enterprise Solutions Certification Resources

Building RAG Agents with LLMs

Course Progress Bookmarks Updates

Building RAG Agents with LLMs Environment and LLMs Environment [0, 1, 2]

Building RAG Agents with LLMs

Course Slides

Course Slides

Environment and LLMs

Environment [0, 1, 2]

LangChain

Documents and Embeddings

Retrieval-Augmented
Generation

Next Steps

Previous

Next

Welcome to **Building RAG Agents with LLMs**. In this first section, we will get introduced to the overall course environment, LLM services, and recommended workflows!

This tab contains the course environment for this section!

Please click the "Start" button to start up your own private server for hands-on coding practice. It will take a few minutes to start up, so go ahead and click it now and then proceed to the next video! After a few minutes when the server has loaded, click "Launch" to access the code labs.



Workshop



NVIDIA Deep Learning Institute (DLI)

Building RAG Agents with LLMs Workshop

Self-Paced Course

Building RAG Agents With LLMs

Certificate available
Free
8 hours

Instructor-Led Workshop

Building RAG Agents With LLMs

Certificate available
\$500
8 hours

Step 1.

Visit

<https://learn.nvidia.com/dli-event>

Step 2.

Enter the event code:

NTPU_RAG_AMBASSADOR_DE25



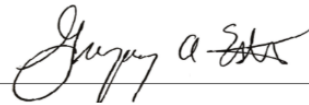
Certificate of Competency

This certificate is awarded to

Min-Yuh Day

for demonstrating competence in the completion of

Building RAG Agents with LLMs

[Download Certificate](#)[Add to Profile](#)

Greg Estes

Vice President, NVIDIA

Issue Date: : December 8, 2024

Certification ID: ed-qOCIMQaatzU8SNUNxgw

NVIDIA Deep Learning Institute (DLI)

Fundamentals of Deep Learning Workshop

Self-Paced Course

Getting Started With Deep Learning

Certificate available
\$90
8 hours

Instructor-Led Workshop

Fundamentals of Deep Learning

Certificate available
\$500
8 hours

Step 1.

Visit

<https://learn.nvidia.com/dli-event>

Step 2.

Enter the event code:

NTPU_FDL_AMBASSADOR_DE25

Get NVIDIA DLI Certificate

Fundamentals of Deep Learning

- Welcome to NVIDIA DLI "**Fundamentals of Deep Learning**" **workshop**.
- Step 1. Visit <https://learn.nvidia.com/dli-event>
- Step 2. Enter the event code: **NTPU_FDL_AMBASSADOR_DE25**
- Step 3. Complete the NVIDIA DLI course and review the course datasheet at <https://developer.nvidia.com/dli/getready>

Get NVIDIA DLI Certificate

Fundamentals of Deep Learning

Workshop

DLI Event

Event Code

NTPU_FDL_AMBASSADOR_DE25

Enter your event code.

ENROLL

Welcome to NVIDIA DLI

" Fundamentals of Deep Learning"
workshop.

Step 1. Visit <https://learn.nvidia.com/dli-event>

Step 2. Enter the event code:

NTPU_FDL_AMBASSADOR_DE25

<https://learn.nvidia.com/dli-event>



NVIDIA.

NVIDIA Fundamentals of Deep Learning



NVIDIA.

Products Solutions Industries For You

Shop Drivers Support Q Min-Yuh Day

Deep Learning Institute

Find Training

Self Paced Courses

Instructor-Led Workshops

Educator Programs

Enterprise Solutions

Certification

Resources

Fundamentals of Deep Learning

Course

Progress

Bookmarks

Updates

Fundamentals of Deep Learning

Start Here

Launch the Course

Fundamentals of Deep Learning

Start Here

Launch the Course

Next Steps

Feedback

Previous

Next

Bookmark this page



NVIDIA.

Workshop



Please click the start button to the top-right. The course will take about 5 minutes to load.

Join the NVIDIA Developer Program

take one of the
complimentary
technical self-
paced courses
(worth up to \$90)

Generative AI and LLMs Graphics and Simulation Accelerated Computing Data Science Deep Learning

8 hours
Getting Started With Deep Learning
Explore the fundamentals of deep learning by training neural networks and using results to improve performance and capabilities.

2 hours
Modeling Time-Series Data With Recurrent Neural Networks in Keras
Explore how to classify and forecast time-series data using recurrent neural networks (RNNs), such as modeling a patient's health over time.

4 hours
Deploying a Model for Inference at Production Scale
Learn how to deploy your own machine learning models on a GPU server.

8 hours
Building Real-Time Video AI Applications
Gain the knowledge and skills needed to enable the real-time transformation of raw video data from widely deployed camera sensors into deep learning-based insights.

2 hours
Introduction to Graph Neural Networks
Learn the basic concepts, models, and applications of graph neural networks.

4 hours
Introduction to Physics-Informed Machine Learning With Modulus
Learn the various building blocks of NVIDIA Modulus, which turbocharges use cases by building physics-based deep learning models that are 100,000X faster than traditional methods and offers high-fidelity simulation results.

2 hours
Get Started With Highly Accurate Custom ASR for Speech AI
Learn to build, train, fine-tune, and deploy a GPU-accelerated automatic speech recognition (ASR) service with NVIDIA® Riva that includes customized features.

2 hours
Integrating Sensors With NVIDIA DRIVE
Find out how to integrate automotive sensors into your applications using NVIDIA DRIVE®.

<https://developer.nvidia.com/join-nvidia-developer-program>

NVIDIA Deep Learning Institute (DLI)

Self-Paced Course

Generative AI Explained

Free
2 hours

Self-Paced Course

Getting Started With Deep Learning

Certificate available
\$90
8 hours

Instructor-Led Workshop

Fundamentals of Deep Learning

Certificate available
\$500
8 hours

Self-Paced Course

Introduction to Transformer-Based Natural Language Processing

Certificate available
\$30
6 hours

Self-Paced Course

Building RAG Agents With LLMs

Certificate available
Free
8 hours

Instructor-Led Workshop

Building RAG Agents With LLMs

Certificate available
\$500
8 hours

Self-Paced Course

Generative AI with Diffusion Models

Certificate available
\$90
8 hours

Instructor-Led Workshop

Generative AI with Diffusion Models

Certificate available
\$500
8 hours

What do you want to learn today?

Filters

Level +

Format +

Topics -

- ☐ Deep Learning
- ☐ Accelerated Computing
- ☐ Generative AI/LLM
- ☐ Graphics and Simulation
- ☐ OpenUSD
- ☐ Data Science
- ☐ NIMS
- ☐ NIM
- ☐ RAPIDS

Free / Paid +

Language +

Generative AI



Sort by: -- v

Showing 19 results

Generative AI x

Generative AI

All Courses

Self-paced

Generative AI Explained

Free
02:00

Self-paced

Generative AI with Diffusion Models

\$90
08:00

Instructor-Led

Generative AI with Diffusion Models

08:00

Self-paced

Augment your LLM Using

Self-paced

Introduction to Transformer-

Instructor-Led

Rapid Application

Generative AI Explained

Self-paced Course

Generative AI Explained

In this no-coding course, learn Generative AI concepts and applications, as well as the challenges and opportunities in this exciting field.

About Course Objectives Topics Covered Course Outline Stay Informed Contact Us

Continue Learning

About this Course

Generative AI describes technologies that are used to generate new content based on a variety of inputs. In recent time, Generative AI involves the use of neural networks to identify patterns and structures within existing data to generate new content. In this course, you will learn Generative AI concepts, applications, as well as the challenges and opportunities in this exciting field.

Learning Objectives

Upon completion, you will have a basic understanding of Generative AI and be able to more effectively use the various tools built on this

Course Details

Duration: 02:00

Price: Free

Level: Technical - Beginner

Subject: Generative AI/LLM

Language: English

https://learn.nvidia.com/courses/course-detail?course_id=course-v1:DLI+S-FX-15+V1

Building RAG Agents with LLMs

Self-paced Course

Building RAG Agents with LLMs

Agents powered by large language models (LLMs) have shown great retrieval capability for using tools, looking at documents, and plan their approaches. This course will show you how to deploy an agent system in practice with the flexibility to scale up your system to meet the demands of users and customers.



[Continue Learning](#)

About this Course

This course is free for a limited time.

The evolution and adoption of large language models (LLMs) have been nothing short of revolutionary, with retrieval-based systems at the forefront of this technological leap. These models are not just tools for automation; they are partners in enhancing productivity, capable of holding informed conversations by interacting with a vast array of tools and documents. This course is designed for those eager to explore the potential of these systems, focusing on practical deployment and the efficient implementation required to manage the considerable demands of both users and deep learning models. As we delve into the intricacies of LLMs, participants will gain insights into advanced orchestration techniques that include internal reasoning, dialog management, and effective tooling strategies.

Course Details

Duration: 08:00

Price: Free

Level: Technical - Intermediate

Subject: Generative AI/LLM

Language: English

Course Prerequisites:

Introductory deep learning knowledge, with comfort

https://learn.nvidia.com/courses/course-detail?course_id=course-v1:DLI+S-FX-15+V1

Self-paced Course

Generative AI with Diffusion Models

Take a deeper dive into denoising diffusion models, which are a popular choice for text-to-image pipelines, with applications in creative content generation, data augmentation, simulation and planning, anomaly detection, drug discovery, personalized recommendations, and more.

[About Course](#) [Objectives](#) [Topics Covered](#) [Course Outline](#) [Stay Informed](#) [Contact Us](#)
[Continue Learning](#)

About this Course

Thanks to improvements in computing power and scientific theory, generative AI is more accessible than ever before. Generative AI plays a significant role across industries due to its numerous applications, such as creative content generation, data augmentation, simulation and planning, anomaly detection, drug discovery, personalized recommendations, and more. In this course, learners will take a deeper dive into denoising diffusion models, which are a popular choice for text-to-image pipelines.

Learning Objectives

Course Details

Duration: 08:00

Price: \$90

Subject: Generative AI/LLM

Language: English

Course Prerequisites:

A basic understanding of [Deep Learning Concepts](#).

https://learn.nvidia.com/courses/course-detail?course_id=course-v1:DLI+S-FX-14+V1

Self-paced Course

Rapid Application Development with Large Language Models (LLMs)

Get started quickly in developing LLM-based applications by exploring the open-sourced ecosystem including pretrained LLMs.

Self-paced courses are temporarily unavailable for purchase outside the USA as we transition to a new ecommerce system. We apologize for any inconvenience. **Free courses** remain available for enrollment.

[About Course](#) [Objectives](#) [Topics Covered](#) [Course Outline](#) [Stay Informed](#) [Contact Us](#)
[Buy Now](#) [Redeem Code](#)

About this Course

Recent advancements in both the techniques and accessibility of large language models (LLMs) have opened up unprecedented opportunities to help businesses streamline their operations, decrease expenses, and increase productivity at scale. Additionally, enterprises can use LLM-powered apps to provide innovative and improved services to clients or strengthen customer relationships. For example, enterprises could provide customer support via AI companions or use sentiment analysis apps to extract valuable customer insights. In this course you will gain a strong understanding and practical knowledge of LLM application development by exploring the open-sourced ecosystem including pretrained LLMs, enabling you to get started quickly in developing LLM-based applications.

Learning Objectives

By participating in this course, you will:

- Find, pull in, and experiment with the HuggingFace model repository and Transformers API.
- Use encoder models for tasks like semantic analysis, embedding, question-answering, and zero-shot classification.
- Work with conditioned decoder-style models to take in and generate interesting data formats, styles, and modalities.
- Kickstart and guide generative AI solutions for safe, effective, and scalable natural data tasks.
- Explore the use of LangChain for orchestrating data pipelines and environment-enabled agents.

Course Details

Duration: 08:00

Price: \$90

Level: Technical - Beginner

Subject: Generative AI/LLM

Language: English

Course Prerequisites:

Introductory deep learning, with comfort with PyTorch and transfer learning preferred. Content covered by [DLI's Getting Started with Deep Learning](#) or [Fundamentals of Deep Learning](#) courses, or similar experience is sufficient.

Intermediate Python experience, including object-oriented programming and libraries. Content covered by

All Self-Paced Courses

[Accelerated Computing](#)
[Data Science](#)
[Deep Learning](#)
[Generative AI/LLM](#)
[Graphics and Simulation](#)
[Infrastructure](#)
[Share Generative AI/LLM Courses](#)

Self-paced

Generative AI Explained

Free
02:00

Self-paced

Introduction to NVIDIA NIM™
Microservices

Free
02:00

Self-paced

Introduction to Deploying
RAG Pipelines for Production
at Scale

\$90
03:00

Self-paced

Generative AI with Diffusion
Models

\$90
08:00

Self-paced

Techniques for Improving the
Effectiveness of RAG Systems

\$30
03:00

Self-paced

Introduction to Transformer-
Based Natural Language
Processing

\$30
06:00

Self-paced

Building LLM Applications
With Prompt Engineering

\$90
08:00

Self-paced

Synthetic Tabular Data
Generation Using
Transformers

\$30
04:00

Self-paced

Sizing LLM Inference Systems

Free
03:00

Self-paced

Building RAG Agents with
LLMs

Free
08:00

Self-paced

Augment your LLM Using
Retrieval Augmented
Generation

Free
01:00

NVIDIA Deep Learning Institute (DLI)

Building RAG Agents with LLMs

Deep Learning Institute [Find Training](#) [Self Paced Courses](#) [Instructor-Led Workshops](#) [Educator Programs](#) [Enterprise Solutions](#) [Certification](#) [Resources](#)

Building RAG Agents with LLMs

Course [Progress](#) [Bookmarks](#) [Updates](#)

[Building RAG Agents with LLMs](#) [Introduction](#) [Introduction](#)

Building RAG Agents with LLMs

Introduction

Environment and LLMs

LangChain

Documents and Embeddings

Retrieval-Augmented
Generation

Next Steps

Feedback

[Previous](#)

[Next](#)



Building RAG Agents with LLMs

Introduction



Building RAG Agents with LLMs

Deep Learning Institute

Find Training

Self Paced Courses

Instructor-Led Workshops

Educator Programs

Enterprise Solutions

Certification

Building RAG Agents with LLMs

Course

Progress

Bookmarks

Updates

Building RAG Agents with LLMs

Environment and LLMs

Environment [0, 1, 2]

Building RAG Agents with LLMs

Introduction

Introduction

Course Slides

Environment and LLMs

Environment [0, 1, 2]

Part 1: Course Environment

Part 2: LLM Services

LangChain

Environment [3, 4]

Part 3: LangChain

Previous

Next

welcome to **Building RAG Agents with LLMs**. In this first section, we will get introduced to the overall course environment, LLM services, and recommended workflows!

This tab contains the course environment for this section, which will contain the notebooks for the next two videos! Please click through the videos in the remaining tabs to watch the material and work through the exercises!

Please click the "Start" button to start up your own private server for hands-on coding practice. It will take a few minutes to start up, so go ahead and click it now and then proceed to the next video! After a few minutes when the server has loaded, click "Launch" to access the code labs.



DEEP
LEARNING
INSTITUTE

This Lab 0 : 01 : 06 / 2 : 00 : 00

Course 13 : 45 : 51 / 32 : 00 : 00



LAUNCH



STOP TASK

Building RAG Agents with LLMs

Deep Learning Institute Find Training Self Paced Courses Instructor-Led Workshops Educator Programs Enterprise Solutions Certification Resources

Course Progress Bookmarks Updates

Building RAG Agents with LLMs Retrieval-Augmented Generation Environment [7, 8, Assessment]

Building RAG Agents with LLMs

Introduction

Environment and LLMs

LangChain

Documents and Embeddings

Environment [5, 6]

Part 5: Documents

Part 6: Embeddings

Retrieval-Augmented Generation

Environment [7, 8, Assessment]

Part 7: Vector Stores

Part 8: Evaluation

Next Steps

Previous

Next

Bookmark this page

In this section, we will combine all of our prior efforts to integrate and evaluate retrieval-augmented generation pipelines! Along the way, you will also get the opportunity to work through the assessment, which will involve Gradio, LangServe, FAISS, RAG, and Evaluation! **Good Luck!**

Please click the "Start" button to start up your own private server for hands-on coding practice. It will take a few minutes to start up, so go ahead and click it now and then proceed to the next video! After a few minutes when the server has loaded, click "Launch" to access the code labs.



This Lab 0 : 15 : 39 / 4 : 00 : 00

Course 14 : 12 : 18 / 32 : 00 : 00



LAUNCH



STOP TASK



ASSESS TASK

Building RAG Agents with LLMs

The screenshot shows a JupyterLab environment. On the left, a file browser pane lists files and notebooks. The file '08_evaluation.ipynb' is selected and highlighted in blue. The main area on the right shows the content of this notebook. It features the NVIDIA Deep Learning Institute logo at the top. Below the logo, the title 'Notebook 8 [Assessment]: RAG Evaluation' is displayed in green text within a red-bordered box. The text below the title reads: 'Welcome to the last notebook of the course! In the previous notebook, you integrated a vector store solution into a RAG pipeline! In this notebook, you will take that same pipeline and evaluate it using numerical RAG evaluation techniques incorporating LLM-as-a-Judge metrics!'. Under the heading 'Learning Objectives:', there is a single bullet point: 'Learn how to integrate the techniques from prior notebooks to numerically approximate the goodness of your RAG pipeline.' The bottom status bar indicates the current mode is 'Command', the cursor is at 'Ln 1, Col 1', and the file is '08_evaluation.ipynb'.

Name	Last Modified
chatbot	yesterday
composer	yesterday
docker_router	yesterday
frontend	yesterday
imgs	yesterday
llm_client	yesterday
slides	yesterday
solutions	yesterday
00_jupyterlab.ipynb	yesterday
01_microservices.ipynb	yesterday
02_llms.ipynb	yesterday
03_langchain_intro.ipynb	yesterday
04_running_state.ipynb	yesterday
05_documents.ipynb	yesterday
06_embeddings.ipynb	yesterday
07_vectorstores.ipynb	yesterday
08_evaluation.ipynb	yesterday
09_langserve.ipynb	yesterday
64_guardrails.ipynb	yesterday
99_table_of_contents.ipynb	yesterday

Notebook 8 [Assessment]: RAG Evaluation

Welcome to the last notebook of the course! In the previous notebook, you integrated a vector store solution into a RAG pipeline! In this notebook, you will take that same pipeline and evaluate it using numerical RAG evaluation techniques incorporating LLM-as-a-Judge metrics!

Learning Objectives:

- Learn how to integrate the techniques from prior notebooks to numerically approximate the goodness of your RAG pipeline.

Congratulations!
Your NVIDIA DLI Instructor
Certification Application
has been accepted for
the May 2025 Cohort

NVIDIA DLI Instructor Certification Application

From: **Kristi MacMillan** <kmacmillan@nvidia.com>

Date: Thu, May 1, 2025 at 1:02 AM

Subject: Congratulations! Your NVIDIA DLI Instructor Certification Application has been accepted for the May 2025 Cohort

To: myday@gm.ntpu.edu.tw <myday@gm.ntpu.edu.tw>

Hello Min-Yuh Day,

Congratulations! Your DLI instructor certification application for **Generative AI with Diffusion Models** has been accepted for the **May 2025** cohort. We welcome your participation in the DLI instructor certification program.

Please note that you have **four weeks** to complete the certification process.

Recommended Timeline:

- **Student Assessment** - to be completed by 15th of the month
- **Review instructor video** found in instructor version - before 20th of the month (Optional)
- **Certification Interview** - to be completed during the third/fourth week of the cohort month.

Steps:

...

Thank you,

Kristi MacMillan

Deep Learning Institute (DLI)

E: kmacmillan@nvidia.com

NVIDIA Corporation

www.nvidia.com

NVIDIA DLI Instructor Certification Application

Steps:

To start and complete the certification process, follow the instructions below:

STEP 1: Go to learn.nvidia.com/dli-event and enter the event code: *****

- **Event codes are not to be shared with anyone.**
- If this is your first time to DLI content, then please see the First-Time Access directions mentioned in the next section.
- **Due to GPU expense, DLI labs have a time limit. Please be sure to shut down the lab when not in use to avoid accidentally consuming your lab hours.**

STEP 2: Take the workshop and obtain a Certificate of Competency.

- Email your certificate to **DLI Instructor Certification Team** at instructor-certification@nvidia.com.
- Access to Step 3 will be provided upon receipt of your Certificate of Competency.

STEP 3: Review instructor video found in instructor version (Optional)

- Post completion of student assessment, candidates can review the instructor video found in the instructor version of the workshops, prior to their interview with the Principal Instructor.

STEP 4: Interview with Principal Instructor, to be conducted during interview week (i.e. last week of cohort month)

When you successfully complete these steps, you will be granted DLI Certified Instructor credentials in the given workshop(s).

Summary

1. NVIDIA AI International Certification
2. AI Career Development

Acknowledgments: Research Projects

1. **Generative AI Multi-Agent Systems with LLM-Based RAG for ESG Reporting Automation**
 - NSTC (E4104), NSTC 114-2221-E-305-002-, 2025/08/01~2026/07/31
2. **ESG Sustainability Commitment Verification Competition and Annotation Data Collection Project**
 - Ministry of Education (MoE), AI CUP 2026 MoE National Collegiate Artificial Intelligence Professional Domain Thematic Competition Project, 2025/10/01~2026/09/30
3. **Innovative Agentic AI Technology for Autonomous ESG Report Generation**
 - Industrial Technology Research Institute (ITRI), Fintech and Green Finance Center (FGFC, NTPU), NTPU-114A513E01, 2025/03/01~2025/12/31
4. **Development of a Deep Learning for Dental Implant Detection in Panoramic Radiographs**
 - University System of Taipei Joint Research Program (NTPU, TMU), USTP-NTPU-TMU-114-02, 2025/01/01~2025/12/31
5. **Digital Support, Unimpeded Communication: The Development, Support and Promotion of AI-assisted Communication Assistive Devices for Speech Impairment (3/3).**
Multimodal Cross-lingual Task-Oriented Dialogue System for Inclusive Communication Support
 - NSTC 113-2425-H-305-002-, 3 Years (2023/05/01-2026/04/30) Year 1: 2025/05/01~2026/04/30
6. **Research on speech processing, synthesis, recognition, and sentence construction of people with language disabilities. Multimodal Cross-lingual Task-Oriented Dialogue System**
 - NTPU, 113-NTPU_ORDA-F-004, 2023/01/01~2025/12/31



Tamkang
University

Q & A



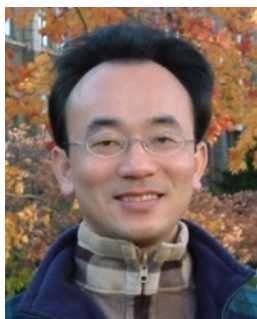
NVIDIA AI 國際認證與職涯發展

(NVIDIA AI International Certification and Career Development)

Time: 13:10-15:00, Friday, November 28, 2025

Place: B206, 淡江大學商管大樓, TKU

Host: 王元慶



戴敏育 教授 (Prof. Min-Yuh Day)

國立臺北大學 資訊管理研究所 所長
金融科技暨綠色金融研究中心 主任



2025-11-28