MICROSOFT OFFICIAL CURRICULUM

# Adding New Knowledge to LLMs

NVIDIA Deep Learning Institute-aligned workshop for adding specialized knowledge to large language models.

NVIDIA NVIDIA

| DURATION | LEVEL | FORMAT | CERTIFICATION |
|---|---|---|---|
| 8 hours | Intermediate | Virtual, On-site, or Hybrid | NVIDIA DLI Certificate of Competency |

AUDIENCE PROFILE

## Built for these roles

Practitioners who need to adapt language models to specialized business or technical knowledge.

OVERVIEW

## Executive overview

Explore how to add domain knowledge to large language models through data preparation, fine-tuning, alignment, compression, decoding, and evaluation techniques.

View official source

READINESS

## Prerequisites

- Experience developing an LLM application
- Working knowledge of RAG and fine-tuning concepts
- Python and deep learning familiarity

PROGRAM OUTCOMES

## Capabilities your teams will gain

- Differentiate RAG, fine-tuning, and alignment
- Create diverse synthetic datasets
- Apply parameter-efficient fine-tuning and compression techniques
- Evaluate customized model output

ENTERPRISE CUSTOMIZATION

## Enterprise customization

Tailor this program to your organization's priorities: Builds practical judgment for selecting and applying customization techniques when retrieval alone is not enough.

- Align examples to an enterprise knowledge domain
- Add model-governance and evaluation criteria
- Extend into a supervised customization pilot

CURRICULUM

## Curriculum roadmap

1

MODULE 1

### Choose a knowledge-adaptation strategy

Compare retrieval, fine-tuning, and alignment for domain-specific requirements.

- Compare retrieval
- and alignment for domain-specific requirements

2

MODULE 2

### Customize efficiently

Use synthetic data, parameter-efficient methods, pruning, and distillation.

- Use synthetic data
- parameter-efficient methods
- and distillation

3

MODULE 3

### Evaluate model behavior

Assess output with task metrics, semantic similarity, and model-based evaluation.

- Assess output with task metrics
- semantic similarity
- and model-based evaluation

PRIVATE DELIVERY

## Plan a private cohort for your team

Scope delivery format, role mix, and rollout timeline with our solutions team.

Plan Private Delivery

Book advisory call