

# Fine Tuning LLM's

**Price:** 2495

**Duration:** 3 days

**Delivery Methods:** Virtual

## Overview

### About this Course

You will develop the skills to gather, clean, and organize data for fine-tuning pre-trained LLMs and Generative AI models. Through a combination of lectures and hands-on labs, you will use Python to fine-tune open-source Transformer models. Gain practical experience with LLM frameworks, learn essential training techniques, and explore advanced topics such as quantization. During the hands-on labs, you will access a GPU-accelerated server for practical experience with industry-standard tools and frameworks.

### Audience Profile

- Project Managers
- Architects
- Developers
- Data Acquisition Specialists

### At Course Completion

- Clean and Curate Data for AI Fine-Tuning
- Establish guidelines for obtaining RAW Data
- Go from Drowning in Data to Clean Data
- Fine-Tune AI Models with PyTorch
- Understand AI architecture: Transformer model
- Describe tokenization and word embeddings
- Install and use AI frameworks like Llama-3

- Perform LoRA and QLoRA Fine-Tuning
- Explore model quantization and fine-tuning
- Deploy and Maximize AI Model Performance

## **Outline**

### Data Curation for AI

- Lecture: Curating Data for AI
- Lecture + Lab: Gathering Raw Data
- Lecture + Lab: Data Cleaning and Preparation
- Lecture + Lab: Data Labeling
- Lecture + Lab: Data Organization
- Lecture: Premade Datasets for Fine Tuning
- Lecture + Lab: Obtain and Prepare Premade Datasets

### Deep Learning

- Lecture: What is Intelligence?
- Lecture: Generative AI
- Lecture: The Transformer Model
- Lecture: Feed Forward Neural Networks
- Lecture + Lab: Tokenization
- Lecture + Lab: Word Embeddings
- Lecture + Lab: Positional Encoding

### Pre-trained LLM

- Lecture: A History of Neural Network Architectures
- Lecture: Introduction to the LLaMa.cpp Interface
- Lecture: Preparing A100 for Server Operations
- Lecture + Lab: Operate LLaMa3 Models with LLaMa.cpp
- Lecture + Lab: Selecting Quantization Level to Meet Performance and Perplexity Requirements

### Fine Tuning

- Lecture: Fine-Tuning a Pre-Trained LLM
- Lecture: PyTorch
- Lecture + Lab: Basic Fine Tuning with PyTorch
- Lecture + Lab: LoRA Fine-Tuning LLaMa3 8B
- Lecture + Lab: QLoRA Fine-Tuning LLaMa3 8B

### Operating Fine-Tuned Model

- Lecture: Running the llama.cpp Package

- Lecture + Lab: Deploy Llama API Server
- Lecture + Lab: Develop LLaMa Client Application
- Lecture + Lab: Write a Real-World AI Application using the Llama API

### Prerequisites

- Python or Equivalent Experience
- Familiarity with Linux

### Course Schedule

Date	Time	Price	Options
07/29/2026	09:00 AM - 05:00 PM CT	2,495.00	<a href="#">Buy Now</a> <a href="#">Enroll</a>
09/23/2026	09:00 AM - 05:00 PM CT	2,495.00	<a href="#">Buy Now</a> <a href="#">Enroll</a>

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## **FAQ**

### **What if I have to reschedule my class due to conflict?**

Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to [info@toptalentlearning.com](mailto:info@toptalentlearning.com) to avoid rescheduling penalties.

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### **What is your late policy?**

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

**What happens when I finish my class?**

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.