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
05/20/2026	**09:00 AM - 05:00 PM CT**	**2,495.00**	**Buy Now Enroll**
07/29/2026	**09:00 AM - 05:00 PM CT**	**2,495.00**	**Buy Now Enroll**
09/23/2026	**09:00 AM - 05:00 PM CT**	**2,495.00**	**Buy Now Enroll**

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FAQ

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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 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?

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