

Training and Deploying Open-Source LLMs on Bare Metal

Price: 2595

Duration: 3 days

Delivery Methods: Virtual

Overview

Course Overview

Learn how to write practical AI applications via hands-on labs. You will design and develop Transformer models, ensuring data security in your work. The course covers AI transformer architectures, Python programming, hardware requirements, training techniques, and AI tasks like classification and regression. It includes hands-on exercises with open-source LLM frameworks, advanced topics like fine-tuning and quantization, and offers AI certification from Alta3 Research. Ideal for Python Developers, DevSecOps Engineers, and Managers or Directors, the course requires basic Python skills and provides access to a GPU-accelerated server for practical experience.

Objectives

- Train and optimize Transformer models with PyTorch.
- Master advanced prompt engineering.
- Understand AI architecture, especially Transformers.
- Write a real-world AI web application.
- Describe tokenization and word embeddings.
- Install and use frameworks like Llama-2.
- Apply strategies to maximize model performance.
- Explore model quantization and fine-tuning.
- Compare CPU vs. GPU hardware acceleration.
- Understand chat vs. instruct interaction modes.

Audience

- Project Managers
- Architects
- Developers
- Data Acquisition Specialists

Prerequisites

- Python – PCEP Certification or Equivalent Experience
- Familiarity with Linux

Course Schedule

Date	Time	Price	Options
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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 to avoid rescheduling penalties.

How do I enroll for this class?

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

What happens once I purchase a class?

You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

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.