

Natural Language Processing & LLMs

Tokenization, embeddings, fine-tuning, RAG, prompt engineering, and building production LLM applications.

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Program Overview

PRICE

\$7,600

DURATION

12 weeks

FORMAT

Live

LEVEL

Advanced

Tokenization, embeddings, fine-tuning, RAG, prompt engineering, and building production LLM applications. This architect track is structured for adult learners who need practical, career-relevant depth without academic abstraction. Delivered as a live experience, the course combines guided milestones, implementation reviews, and applied exercises aligned with modern AI, engineering, and technical leadership work.

Outcomes

- Understand the full lifecycle of modern NLP and LLM systems.
- Build retrieval-augmented and prompt-driven applications responsibly.
- Work with embeddings, evaluation, and model adaptation strategies.
- Design production LLM systems with guardrails and operational clarity.

Includes

- 12 live weeks with LLM labs and architecture reviews.
- Prompt, evaluation, and RAG implementation templates.
- Hands-on exercises using embeddings, retrieval, and fine-tuning concepts.

- Case studies on hallucination, guardrails, and production reliability.

Syllabus

WEEK 1

Modern NLP Foundations

Build a grounded understanding of text representations, tokenization, and language modeling.

Topics: Tokenization, Embeddings, Language modeling basics

WEEK 4

Transformer Language Systems

Understand how modern LLMs are trained and why they behave the way they do.

Topics: Transformers, Pretraining, Instruction tuning

WEEK 8

RAG and Application Design

Connect language models to external context and build useful product workflows.

Topics: Retrieval, Prompt design, Tool use

WEEK 12

Evaluation, Safety, and Production

Measure quality, manage failure modes, and deploy language systems responsibly.

Topics: Evaluation, Guardrails, Production architecture

Instructor

Amir Haddad

Amir designs LLM-powered applications and teaches the technical and product tradeoffs behind reliable language systems.

This Blootou Intelligence syllabus is an admissions overview for planning and evaluation. Final cohort dates, live session timing, assessments, and platform access details are shared in the welcome packet after enrollment.

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