Applied LLM: Foundations for Builders

Learn how LLM thinks & generate response. Build what matters

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Overview

Applied LLM: Foundations for Builders is a 1-week blended experiential learning program designed for developers who want to go beyond prompting and start architecting intelligent systems.

The course blends live instruction, hands-on coding labs, peer collaboration, and post-program reinforcement, ensuring participants not only understand how LLMs learn, generate & Limitations — but also apply that knowledge to build reliable, usable AI applications.

Through guided experimentation and project work, learners explore how LLMs process language, where they fail, and how RAG (Retrieval-Augmented Generation), Tools, and AI Agents complement LLM's limitations to create safe, business-ready solutions.

Who Should Attend

- Developers, data engineers, and ML practitioners exploring LLM integration
- Technical architects and solution designers leading GenAI adoption
- Product Manager who wanted to take the ideal to MVP
- Innovation and R&D teams building proof-of-concepts or internal AI tools
- Startups and corporate teams seeking practical AI system-building capability

Prerequisites: Basic knowledge of Python and API handling.

Learning Outcomes

By the end of the program, participants will be able to:

1. **Understand how LLMs learn and generate responses**
   Explore tokens, embeddings, transformers, context windows, temperature, etc.
2. **Apply Prompt & Context Engineering**
   Design structured prompts and context frameworks for accurate and consistent responses.
3. **Recognize and mitigate LLM limitations**
   Understand hallucinations, context loss, illogic, Memory and bias — and apply design strategies to overcome them.
4. **Use RAG, Tools & Agents to build smarter AI**
   Implement vector stores (FAISS, Chroma) and use LangChain/CrewAI to orchestrate intelligent workflows.
5. **Develop and deploy real-world AI applications**
   Build and present a working LLM-powered project addressing a real business use case.
6. **Adopt safe and responsible AI practices**
   Implement basic techniques to prevent data leakage, prompt injection, and model misuse.

Program Structure

Duration & Format

1 Week (Total 20 Hours)

A **blended, experiential learning journey** combining live expert-led sessions, guided online labs, and collaborative project work.

- **2 Days (8 Hours) – Live Instructor-led Sessions**
  Deep dive into how LLMs learn, think, and generate. Build strong conceptual clarity through live demonstrations and interactive discussions.
- **3 Days (12 Hours) – Guided Online Labs**
  Apply learning through structured hands-on exercises in RAG, Prompt & Context Engineering, and AI Agent development.
- **Delivery Mode:** Hybrid (In-person or Virtual)
  Mix of synchronous and asynchronous formats to ensure flexibility and sustained engagement.
- **Learning Design:**
  Small-group collaboration, live coding walkthroughs, and real-world mini-projects culminating in a functional AI prototype.

Program Highlights

- Blended, experiential learning design
- Real-world project with measurable outcomes
- Focus Fundamentals of LLM & RAG, Tools, and AI Agents
- 30-Day continued learning platform
- Corporate-ready content with security and compliance awareness

Workshop Highlights

Day	Mode	Focus Area	Key Outcome
Pre-Workshop	Online	*AI Readiness & Pre-Assessment*	Measure current understanding of LLMs and AI tools
Day 1 (Live)	Instructor-led	*How LLMs Learn, Think & Generate*	Understand core mechanics — tokens, embeddings, attention
		LLM Limitations & Prompt Crafting	Identify limitations, master prompt and context engineering
Day 2 (Live)	Instructor-led	*RAG, Tools & Agents Fundamentals*	Build a knowledge-augmented LLM using LangChain
Day 3 (Online Lab)	Guided	*Implement RAG Pipeline*	Connect private data to LLM for factual responses
Day 4 (Online Lab)	Guided	*AI Agents & API Integration*	Build autonomous multi-tool workflows
Day 5 (Cohort Project + Post-Assessment)	Live Showcase	*Build & Present Functional AI App*	Apply all learnings in a usable prototype
Post-Workshop (30 Days)	Online Portal	*Continuous Reinforcement*	Access recordings, code labs, and micro-learning challenges

Extended Learning

Pre & Post Assessments

Gauge skill improvement in:

- LLM conceptual depth
- Practical implementation
- Safe deployment and context engineering

30-Day AI-Powered Productivity App

- Session recordings and instructor notes
- Code templates and project notebooks
- Daily “AI Builder” micro-challenges
- Community Q&A and mentor feedback

Certification

All participants completing the workshop and post-assessment will receive

Duration & Format

- **2 Full Days (9:30 AM – 4:30 PM)**
- **Mode:** In-person, Instructor-led
- **Format:** Hands-on, case-driven, team-based learning

Contact Information

For Further Inquiries

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