🚀 LangChain Program

Build Real-World LLM Applications with LangChain
LangChain is the most powerful framework for building **context-aware, multi-step, and production-ready AI applications** using LLMs like OpenAI's GPT, Claude, and Cohere.
At **Certed Technologies**, our **LangChain Program** empowers developers, data scientists, and AI enthusiasts to build intelligent agents, chatbots, RAG (Retrieval-Augmented Generation) systems, and AI-driven workflows with ease.

🌍 Why LangChain? Why Now?

Generative AI is evolving fast—and so are the tools that bring it to life.
LangChain bridges the gap between **LLMs and practical enterprise use cases** like custom copilots, AI chatbots, document Q&A engines, and knowledge agents. It's used by **tech teams at startups, MNCs, and AI-native companies** to integrate LLMs into workflows securely and scalably.

👨‍🏫 Learn from GenAI Engineers

Our instructors are AI developers and prompt engineers who work hands-on with LangChain, OpenAI APIs, Pinecone, ChromaDB, and Vector Stores. They'll teach you not just the how—but also the why and when of building real-world GenAI applications.

🌐 Program Highlights

Feature	Description
Duration	6 Months / 450 Hours
Delivery Mode	Hybrid (Online + Offline)
Tools & Frameworks	LangChain, OpenAI API, Pinecone, ChromaDB, FAISS, Streamlit
Project Work	5+ Application Projects + 1 Capstone

Certifications	Industry Certificate + LLM Engineering Badge
Career Support	Resume Review, Mock Interviews, LinkedIn Optimization

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🔍 What You'll Learn

📘 Module 1: Foundation of LLMs & LangChain

- Understanding LLMs & Prompt Engineering

- What is LangChain? Core Concepts

- Chains, Agents, Tools, and Callbacks

📘 Module 2: Setting Up LangChain Environment

- Installing LangChain, Python, Jupyter

- API Integration (OpenAI, Cohere, etc.)

- Environment Variables, Token Usage, Rate Limits

📘 Module 3: Chains & Memory

- LLMChains, Sequential & Router Chains

- ConversationBufferMemory, Token Limits

- Custom Prompt Templates and Chaining Logic

📘 Module 4: Tools & Agents

- LangChain Agents: Zero-shot, ReAct, Conversational

- Using Tools: Calculator, Web Search, Code Interpreter

- Building Multi-Agent Architectures

📘 Module 5: Retrieval-Augmented Generation (RAG)

- Document Loaders & Text Splitters

- Embeddings: OpenAI, Cohere, Hugging Face

- Vector Databases: FAISS, ChromaDB, Pinecone

- Building a PDF/Website Q&A Bot

📘 Module 6: Advanced Use Cases

- Chat with CSV, Excel, and SQL

- AI Legal/HR Assistants

- LangChain + Streamlit App Deployment

- Secure LLM Apps (Rate Limiting, PII, Token Budgeting)

📘 Module 7: Capstone Project

- End-to-End LangChain App

- Custom Knowledge Agent with Retrieval

- UI Deployment + GitHub Portfolio Upload

💼 Career Outcomes

Be job-ready for roles such as:

- LLM Application Developer

- Generative AI Engineer

- AI Chatbot Developer

- Prompt Engineer

- RAG Architect

- AI Product Prototyper

Top Hiring Industries:
 AI Startups | EdTech | FinTech | LegalTech | HRTech | SaaS | Consulting

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💡 Tools & Technologies Covered

LangChain | Python | OpenAI API | Pinecone | ChromaDB | FAISS | Hugging Face Embeddings | Streamlit | GitHub | Prompt Engineering | JSON Parsing | LlamaIndex (Intro)

🛠️ Capstone Project Examples

- **Document Chatbot (Chat with PDFs & Word Files)**

- **Internal Knowledge Assistant for HR/Legal Docs**

- **AI Copilot for Sales Emails using CRM Data**

- **LangChain + Streamlit UI Chat App with Memory**

- **RAG System for Custom Domain Knowledge**

📜 Certification

Earn a **Joint Certification** from Certed Technologies + Industry Partners and a **Digital Badge** that proves your LangChain and LLM proficiency—perfect for LinkedIn and portfolios.

📣 What Makes This Course Unique?

✅ Entirely Focused on Building with LLMs
✅ Real LangChain Projects with Industry Use Cases
✅ Live + Recorded Access with Mentor Support
✅ GitHub Portfolio-Ready Code Templates
✅ Lifetime Learning Hub Access + Private GenAI Community

📅 Upcoming Batch

Batch Start Date	Mode	Status
15 July 2025	Online	Open
22 July 2025	Offline	Few Seats Left
05 August 2025	Hybrid	Open

🏢 Custom LangChain Training for Corporates

🎯 Empower Your Tech Teams to Build AI Agents

We offer enterprise-focused **LangChain & GenAI training** to help you turn internal knowledge, workflows, or customer data into AI-enabled solutions.

🔧 Customization Options:

- **Curriculum Customization**: Based on your AI maturity—basic to advanced agent workflows

- **Data Integration**: Train using your internal documents (PDFs, Docs, Websites, SQL, etc.)

- **Delivery**: Online, Onsite, Blended, or LMS-ready modules

- **Certification & Reporting**: Co-branded with skill-assessments and leaderboards

- **Post-Training Support**: Use-case implementation hours + consulting

👥 Ideal for Teams in:

- AI/ML Development

- Product Prototyping

- Knowledge Management

- Customer Support & Automation

- R&D, Innovation Labs

- CX, HR & Legal Teams leveraging internal data

📞 Talk to an Advisor

📧 Email: support@certedtechnologies.com
📱 Call/WhatsApp: +91-8920158923 | +91-9009015026

🎓 Ready to Build AI Apps with LangChain?

"Don't just consume AI—start building with it."
This course is your **launchpad into GenAI product development**.

[📌 Enroll Now] [📞 Request a Callback]

❓ Frequently Asked Questions (FAQs)

1. **Do I need to know Python?**
   Yes, basic Python knowledge is required. We provide a pre-course primer if needed.

2. **Is this course beginner-friendly?**
   It's beginner-friendly for those with Python knowledge and basic understanding of

AI/LLMs.

3. **Do I need OpenAI or Pinecone accounts?**
   Yes. You'll use free/paid tiers for OpenAI, Pinecone, or ChromaDB. Setup guidance is included.

4. **What will I build in the course?**
   You'll build chatbots, RAG apps, data assistants, and AI agents using real data.

5. **Can I deploy what I build?**
   Absolutely! You'll learn to deploy apps using Streamlit, Flask, and GitHub.

6. **Is there a certification?**
   Yes. You'll get a recognized certificate and badge to showcase your LangChain proficiency.

7. **Is this course up to date with GenAI trends?**
   Yes. We include modules on RAG, Agents, Prompt Engineering, and real-world GenAI pipelines.

8. **What is RAG and why is it important?**
   RAG (Retrieval-Augmented Generation) improves LLM accuracy by feeding it context from your documents. It's a key enterprise AI strategy.

9. **Is job placement support included?**
   Yes. Resume review, mock interviews, and recruiter connections are part of the program.

10. **Can this be adapted for my organization's use case?**
    100%. We offer custom LangChain corporate training + project mentoring.