BUILDING AGENTIC AI APPLICATIONS WITH LLMS

Course Code: 847002

Gain hands-on experience in designing agents that efficiently retrieve and refine information, intelligently route queries, and execute tasks concurrently using orchestration tools like LangGraph and sound software engineering practices.

The bar for what AI-powered agents can do has been steadily rising over the past few years, and new innovations allow them to not only engage in conversations but also utilize tools, conduct research, and execute on complex objectives at scale. This course empowers you to develop sophisticated agent systems that can execute on deep thought, research, software calling, and distributed operation. Throughout the course, you'll gain hands-on experience in designing agents that efficiently retrieve and refine information, intelligently route queries, and execute tasks concurrently using orchestration tools like LangGraph and sound software engineering practices. By the end of the course, you will have a solid foundation in agent architectures and will be able to construct interesting agent-like integrations to complement your existing workflows and software stacks.

What You'll Learn

- Understand the strengths and limitations of LLMs, and why agent-based paradigms help us to empower them in our modern software landscape.
- Learn to produce structured outputs to enable machine-parseable function calls or API integrations.
- Explore retrieval mechanisms and knowledge graphs for domain knowledge.
- Experiment with multi-agent orchestration using frameworks like LangGraph.

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