KOENIG SOLUTIONS · COURSE OUTLINE

LlamaIndex Agentic RAG: Router & Multi-Doc Agents

Learn to build agentic RAG systems with LlamaIndex, from router query engines and tool calling to multi-document research agents.

1 Day
8 HOURS A DAY

5
TOPICS

COURSE OVERVIEW

In this course, we will learn LlamaIndex to start using agentic RAG, a framework designed to build research agents skilled in tool use, reasoning, and decision-making with your data.

WHO THIS COURSE IS FOR

- AI Engineers
- Machine Learning Engineers
- Data Scientists
- NLP Developers
- Research Engineers

LEARNING OBJECTIVES

In this course:

- Build the simplest form of agentic RAG - a router. Given a query, the router will pick one of two query engines, Q&A or summarization, to execute a query over a single document.
- Add tool calling to your router agent where you will use an LLM to not only pick a function to execute but also infer an argument to pass to the function
- Build a research assistant agent. Instead of tool calling in a single-shot setting, an agent is able to reason over tools in multiple steps.
- Build a multi-document agent where you will learn how to extend the research agent to handle multiple documents
- Unlike the standard RAG pipeline—suitable for simple queries across a few documents—this intelligent approach adapts based on initial findings to enhance further data retrieval. You'll learn to develop an autonomous research agent, enhancing your ability to engage with and analyze your data comprehensively.

COURSE SYLLABUS

5 Topics

TOPICS

Introduction to LlamaIndex · Router Query Engine · Tool Calling · Building an Agent Reasoning Loop · Building a Multi-Document Agent

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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