CORSEN AI Academy

Multi-Agent Research

Course syllabus

Version 2026-11

Overview

Orchestrate 4 or 16 agents in parallel with grok-4.20-multi-agent: leader architecture, shared tools, and enriched results.

Learning objectives

- Distinguish the role of the leader and sub-agents in the flow of a multi-agent request
- Decide between 4 and 16 agents based on expected search depth and budget
- Implement multi-agent search with the xAI SDK, the OpenAI SDK, or the Vercel AI SDK
- Leverage web_search and x_search considering the absence of custom function calling
- Master cumulative billing of agents and chain turns with previous_response_id

Audience and prerequisites

Developers, engineers, and integrators looking to leverage Grok via API in their applications.

Ability to read Python (or TypeScript for examples using it) and JSON, command line basics. An API key from the xAI console to try the examples.

Duration and format

Estimated duration : 1 h 15 min. 100% online self-paced course, accessible 24/7 from a browser. Progress saved, resume anytime. Estimated duration: 1 h 15 min.

Content

- Architecture (4 lessons)
- Implementation (4 lessons)
- Tools (3 lessons)
- Best Practices (3 lessons)

Assessment

Self-assessment based on the Key takeaways concluding each lesson, and direct implementation of examples on your own examples. A final quiz of 5 corrected questions, at the end of the last lesson, validates acquired skills.

Accessibility

Course accessible to people with disabilities: text content compatible with screen readers, keyboard navigation, and compliant contrasts. For any adaptation needs, email hello@corsen.ai.

Price and recognition

Free

Certificate of completion issued by Corsen AI.

Access time

Immediate after account creation and email confirmation.

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