CORSEN AI Academy

API Tools: Search, Files, and Code Interpreter

Course syllabus

Version 2026-11

Overview

This course covers Web Search, File Search, Code Interpreter, MCP, Tool Search, and multi-tool architectures.

Learning objectives

- Declare functions with a validated JSON schema and handle parallel, sequential calls and their errors
- Integrate Web Search and File Search into an application and control the scope of results
- Execute code in the Code Interpreter sandbox to process CSV or Excel files and produce charts
- Connect MCP servers and connectors to extend the model to external systems
- Design a multi-tool architecture combining search, code execution, and Tool Search in production

Audience and prerequisites

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

Ability to read Python and JSON, command line basics. An OpenAI platform API key to try the examples.

Duration and format

Estimated duration : 45 min. 100% online self-paced course, accessible 24/7 from a browser. Progress saved, resume anytime. Estimated duration: 45 min.

Content

- Advanced function calling (4 lessons)
- Search (5 lessons)
- Code execution (5 lessons)
- Advanced tools (6 lessons)

Assessment

Application exercises proposed throughout the lessons. Each lesson ends with its Key takeaways, supporting self-assessment. A final quiz of 5 corrected questions, at the end of the last lesson, validates acquired skills.

Accessibility

Self-paced 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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