Function Calling and Tool Use

Course syllabus

Version 2026-11

Overview

Connect your Mistral models to external functions: JSON schema, tool_choice, parallel calls, and integration with business APIs.

Learning objectives

- Describe a function in JSON Schema usable by the model and expose it in the API call
- Run the complete cycle: tool call, local execution, result return, final response
- Orchestrate parallel function calls and steer the model via tool_choice
- Handle tool execution errors and secure functions exposed to the model
- Build a complete end-to-end business case, such as a payment tracker or automated CRM

Audience and prerequisites

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

Ability to read Python and JSON, command line basics. A Mistral AI Studio API key to try the examples.

Duration and format

Estimated duration : 1 h 30 min. 100% online self-paced course, accessible 24/7 from a browser. Progress saved, resume anytime. Estimated duration: 1 h 30 min.

Content

- Concept and Architecture (3 lessons)
- Python Implementation (4 lessons)
- Parallel and Advanced Calls (4 lessons)
- Production Use Cases (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.

Corsen AI — Paris, France — SIRET 10297040700015
academy@corsen.ai — https://academy.corsen.ai