CORSEN AI Academy

Structured JSON Outputs

Course syllabus

Version 2026-11

Overview

Always get valid JSON with automatic parsing, Pydantic, Zod, and function calling integration. Saves time on validation.

Learning objectives

- Constrain model responses to a valid JSON schema and identify unsupported types
- Obtain typed objects with the parse() method or configure response_format manually
- Model an expected output with Pydantic in Python or Zod in JavaScript
- Integrate structured outputs with tools like web search or code execution
- Automate an entity extraction and classification pipeline by validating each output

Audience and prerequisites

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

Ability to read Python and JSON, command line basics. An API key from the xAI console 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

- Concept (3 lessons)
- Methods (4 lessons)
- With Tools (3 lessons)
- Use cases (1 lessons)
- Use Cases (1 lessons)

Assessment

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

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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