CORSEN AI Academy

Grok Reasoning Models

Course syllabus

Version 2026-11

Overview

Leverage reasoning across the Grok range: configurable Grok 4.5, 4.20 reasoning variants, reasoning tokens, billing, and use cases.

Learning objectives

- Choose between Grok 4.5 and reasoning variants based on the actual task complexity
- Set the reasoning effort (low, medium, high) to balance response quality and latency
- Retrieve the reasoning content with include and reinject it into subsequent requests
- Calculate the cost of a request by accounting for billed reasoning tokens
- Limit consumption with max_completion_tokens and identify cases where reasoning is unnecessary

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

Content

- Models (3 lessons)
- Control (4 lessons)
- Tokens (3 lessons)
- Best Practices (2 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 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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