

# Getting started with AI functions - Prerequisites

## Transform and enrich data seamlessly with AI functions

With Microsoft Fabric, all business professionals—from developers to analysts—can derive more value from their enterprise data through Generative AI, using experiences like [Copilot](#) and [Fabric data agents](#). Thanks to a new set of AI functions for data engineering, Fabric users can now harness the power of industry-leading large language models (LLMs) to transform and enrich data seamlessly.

AI functions harness the power of GenAI for summarization, classification, text generation, and so much more—all with a single line of code:

- [Calculate similarity with ai.similarity](#): Compare the meaning of input text with a single common text value, or with corresponding text values in another column.
- [Categorize text with ai.classify](#): Classify input text values according to labels you choose.
- [Detect sentiment with ai.analyze\\_sentiment](#): Identify the emotional state expressed by input text.
- [Extract entities with ai.extract](#): Find and extract specific types of information from input text, for example locations or names.
- [Fix grammar with ai.fix\\_grammar](#): Correct the spelling, grammar, and punctuation of input text.
- [Summarize text with ai.summarize](#): Get summaries of input text.
- [Translate text with ai.translate](#): Translate input text into another language.
- [Answer custom user prompts with ai.generate\\_response](#): Generate responses based on your own instructions.

It's seamless to incorporate these functions as part of data-science and data-engineering workflows, whether you're working with pandas or Spark. There is no detailed configuration, no complex infrastructure management, and no specific technical expertise needed.

## Prerequisites

- To use AI functions with Fabric's built-in AI endpoint, your administrator needs to enable [the tenant switch for Copilot and other features powered by Azure OpenAI](#).
- You also need an F64 or higher SKU or a P SKU. With a smaller capacity resource, you need to provide AI functions with your own Azure OpenAI resource [using custom configurations](#).
- Depending on your location, you may need to enable a tenant setting for cross-geo processing. Learn more [here](#).

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## Note

- AI functions are supported in the [Fabric 1.3 runtime](#) and higher.
- By default, AI functions are currently powered by the gpt-3.5-turbo (0125) model. To learn more about billing and consumption rates, visit [this article](#).
- Although the underlying model can handle several languages, most of the AI functions are optimized for use on English-language texts.
- During the initial rollout of AI functions, users are temporarily limited to 1,000 requests per minute with Fabric's built-in AI endpoint.

## Applying AI functions

Each of the following functions allows you to invoke Fabric's built-in AI endpoint to transform and enrich data with a single line of code. You can use AI functions to analyze pandas DataFrames or Spark DataFrames.

## Tip

To learn about customizing the configuration of AI functions, visit [this article](#).