

Using Cloudera Copilot

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Cloudera Copilot Overview

Learn how to configure and use Cloudera Copilot with Cloudera AI Inference service and Amazon Bedrock models.

Cloudera Copilot is an AI-powered coding assistant designed for seamless integration within JupyterLab ML Runtimes. With its chat interface and comprehensive code completion features, Cloudera Copilot enhances the development experience for machine learning projects. It offers compatibility with model endpoints deployed in Cloudera AI Inference service as well as Amazon Bedrock models, providing developers with flexibility and efficiency in their workflows.

Cloudera AI Inference service vs Amazon Bedrock

Cloudera AI Inference service model endpoints may be a good choice if you are concerned about proprietary data being sent to a third-party service provider. With Cloudera AI Inference service, you can run your own models and ensure that your proprietary data stays within your cloud deployment.

If you are not concerned about proprietary data being sent to a third-party service provider, and you do not expect high volumes of Cloudera Copilot usage, then using Amazon Bedrock models may be a simpler and more cost-effective solution.

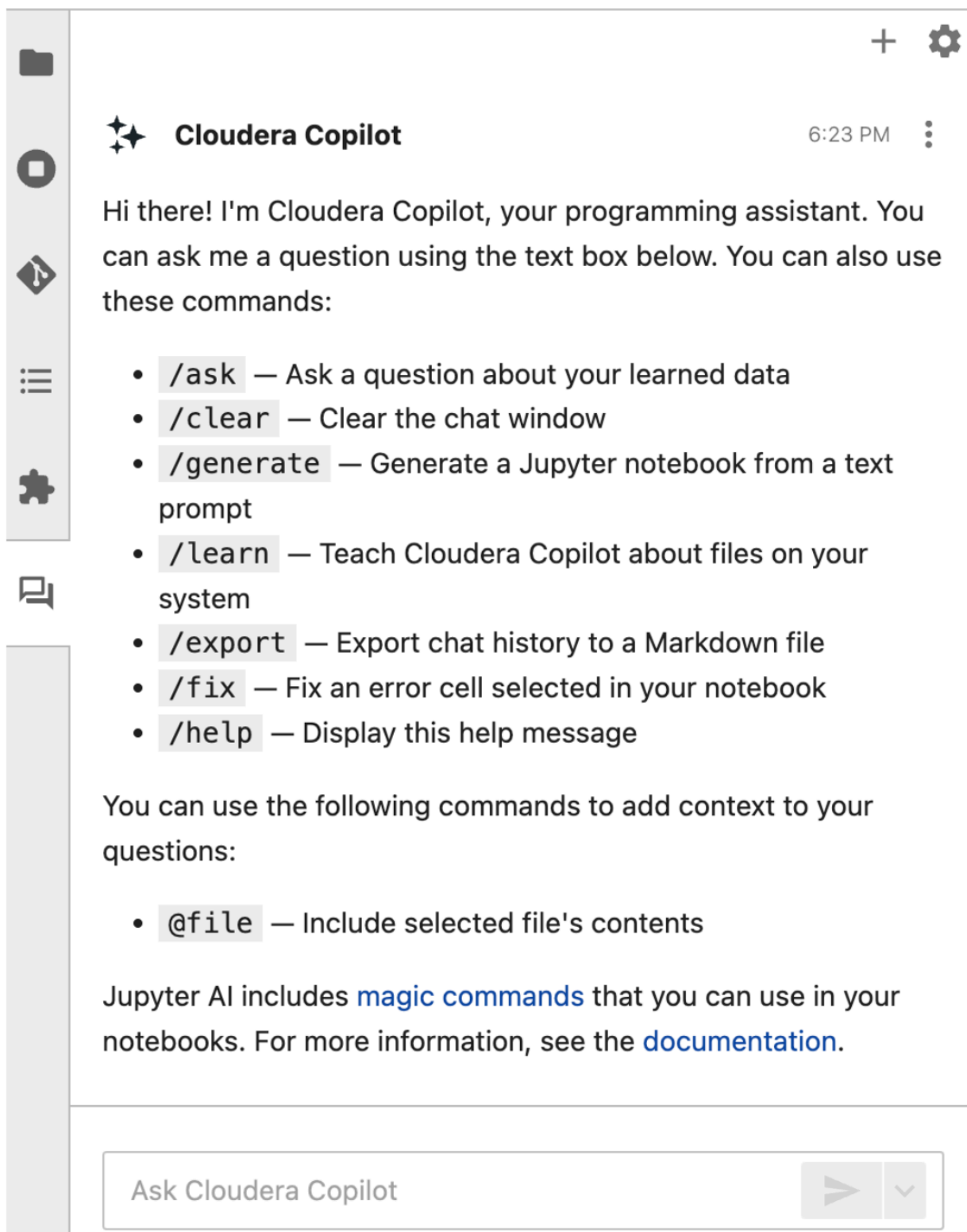
Using Cloudera Copilot

You can use Cloudera Copilot to assist you in code generation and code completion thus providing flexibility and efficiency in the Cloudera AI workflows.

Procedure

1. Start a session within your project and select JupyterLab as your editor.

2. Click the  Jupyter AI Chat icon in the left navigation pane.



Cloudera Copilot 6:23 PM

Hi there! I'm Cloudera Copilot, your programming assistant. You can ask me a question using the text box below. You can also use these commands:

- `/ask` — Ask a question about your learned data
- `/clear` — Clear the chat window
- `/generate` — Generate a Jupyter notebook from a text prompt
- `/learn` — Teach Cloudera Copilot about files on your system
- `/export` — Export chat history to a Markdown file
- `/fix` — Fix an error cell selected in your notebook
- `/help` — Display this help message

You can use the following commands to add context to your questions:

- `@file` — Include selected file's contents

Jupyter AI includes [magic commands](#) that you can use in your notebooks. For more information, see the [documentation](#).

Ask Cloudera Copilot

3. Start typing in the prompt and the Cloudera Copilot will assist you.

For example, enter Help me write a fibonacci function.

Example use cases for Cloudera Copilot:

- Debugging/fixing code
- Code completion
- Explaining code or explaining errors
- Code generation
- Refer to [Jupyter AI documentation](#) for instructions on /ask /learn /fix and /generate commands.

4. **Magic commands:**

- In addition to using the chat interface, you can also use Cloudera Copilot by calling Magic Commands within your notebook. Magic commands are special lines of code that will make calls to a language model that you have configured.
- Example syntax:
 - `%load_ext jupyter_ai_magics`
 - `%%ai anthropic.claude-3-sonnet-20240229-v1:0`
 - `def fibonacci(`
- Finding model ID strings for magic commands.
 - The Amazon Bedrock models recommended for Cloudera Copilot are:
 - `anthropic.claude-3-5-sonnet-20241022-v2:0`
 - `mistral.mixtral-8x7b-instruct-v0:1`
 - `meta.llama3-1-70b-instruct-v1:0`
 - `meta.llama3-1-405b-instruct-v1:0`
 - `amazon.titan-embed-text-v2:0`
 - For Cloudera AI Inference service, the model ID string will be of the form:
 - `cloudera:<MODEL_NAME>` . Here, the model_name is the same model ID from the Model Endpoints details page that you added when you configured Cloudera Copilot.