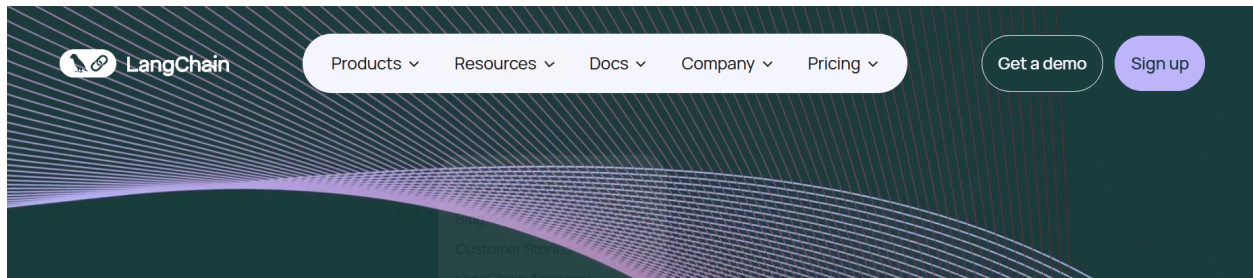


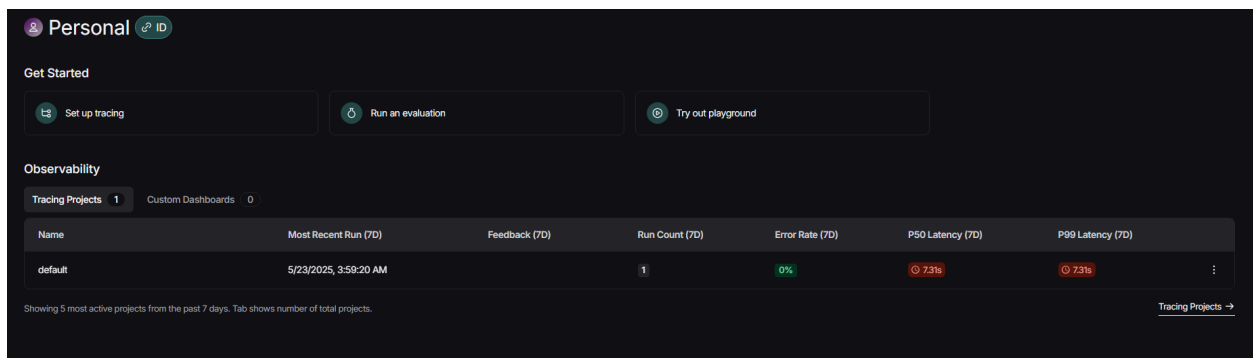
# LangChain Setup

Go to → <https://www.langchain.com/>

- Sign up



## Langsmith:

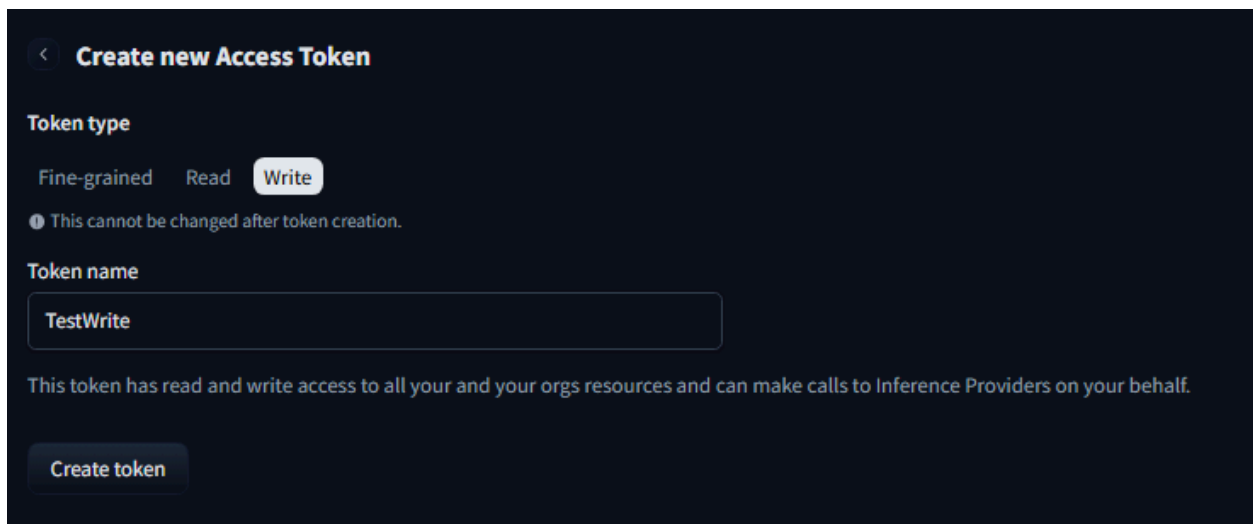
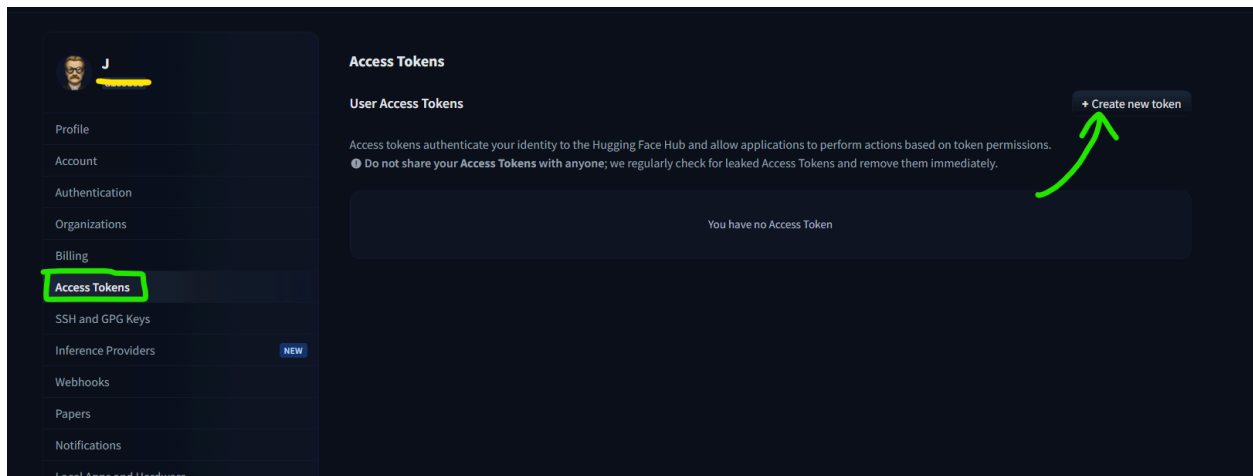


## Create an API Key

1. Paid → OpenAI
2. Free → Huggingface

Go to → <https://huggingface.co/>

- Sign Up
- Access Tokens → Create new token

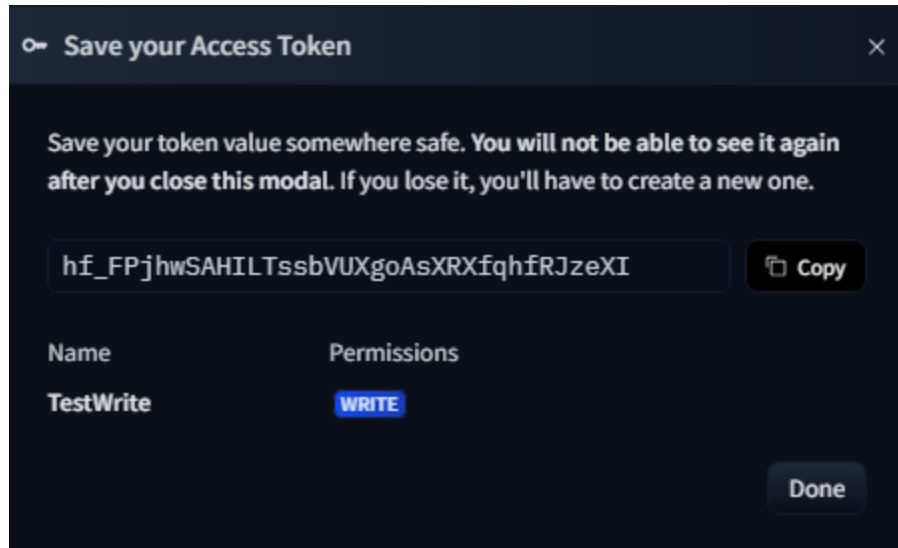


Generate **WRITE** token

Name → TestWrite

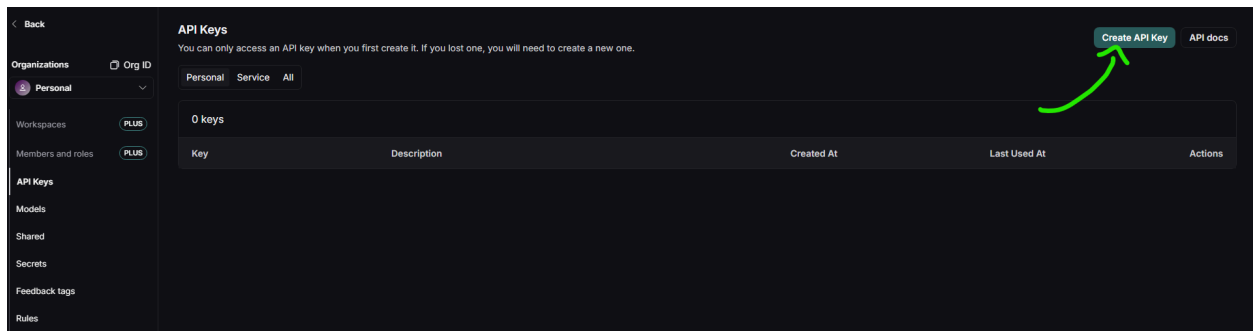
Key → hf\_FPjhwSAHILTssbVUXgoAsXRXfqhfRJzeXI (Write)

Read → hf\_MVhPOQotEanwWsKkfoYXqVbUSGEXAhoQax



## Create LangChain API key:

- Settings → API Keys → Create API Key



Create an API Key

Description

testkey

Key Type

☒ Personal Access Token  
Used for authenticating with the API as an individual user.

☐ Service Key  
Tied to a service principal for automation and CI workflows.

Create API Key

Copy your new API key

Copy

lsv2\_pt\_ca098ca3bb144cb48b6084f7ffb37e3a\_9f35ca49e5

I've saved the API key to a safe place

*lsv2\_pt\_ca098ca3bb144cb48b6084f7ffb37e3a\_9f35ca49e5*

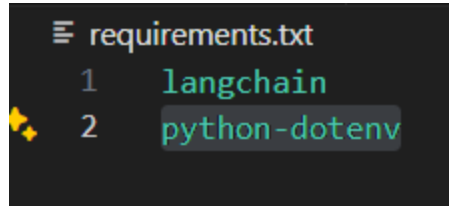
## Save the keys in .env file:

```
HUGGINGFACEHUB_API_TOKEN=hf_MVhPOQotEanwWsKkfoYXqVbUSGEXAh  
oQax  
LANGCHAIN_API_KEY=lsv2_pt_ca098ca3bb144cb48b6084f7ffb37e3a_9f35ca  
49e5  
LANGCHAIN_PROJECT=GeNAI_App
```



Do not add any space or quotes( " " ).

Add `python-dotenv` in *requirements.txt*

A screenshot of a code editor with a dark background. The file name 'requirements.txt' is at the top. Below it, line 1 contains 'langchain' and line 2 contains 'python-dotenv'. The text 'python-dotenv' is highlighted with a light blue background.

```
requirements.txt
1 langchain
2 python-dotenv
```

## Install langchain Community:

```
%pip install langchain_community
```

- This is deprecated

```
pip install -U langchain-huggingface
```

```
from langchain_huggingface import HuggingFaceEndpoint
```

```
llm = HuggingFaceEndpoint(
    repo_id="deepseek-ai/deepseek-llm-7b",
    huggingfacehub_api_token="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",
    temperature= 0.7
)
```

```
from langchain_huggingface import ChatHuggingFace, HuggingFaceEndpoint
```

```
llm = HuggingFaceEndpoint(
    repo_id="deepseek-ai/DeepSeek-R1",
    task="text-generation",
    huggingfacehub_api_token="hf_MVhPOQotEanwWsKkfoYXqVbUSGEXAho
```

```
Qax", # Replace with your valid token
    temperature= 0.7
)

model = ChatHuggingFace(llm=llm)

result = model.invoke("what's up?")

print(result.content)
```

<think>

</think>

Hello! I'm just here, ready to help you with whatever you need. What's up with you? 😊

### Create an API Key

Description

Key Type

☒ **Personal Access Token**  
Used for authenticating with the API as an individual user.

☐ **Service Key**  
Tied to a service principal for automation and CI workflows.

Create API Key