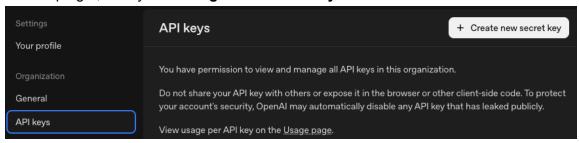


# API Key Generation Guide for Labs

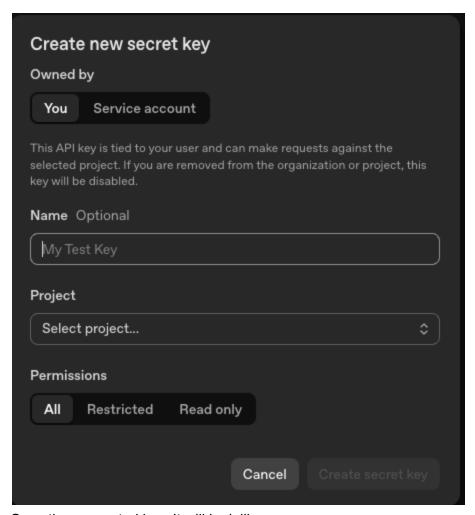
These labs use multiple GenAl providers. To run the notebooks smoothly, you'll need to create API keys for OpenAI, Hugging Face, Google Gemini, and Anthropic. Store them securely in a .env file at the root of your project.

## 1. OpenAl API Key

- 1. Go to OpenAl Platform.
- 2. Log in with your OpenAl account (create one if needed).
- 3. In the top right, click your **settings icon** → **API keys**.



4. Click Create new secret key.



5. Copy the generated key. It will look like:

None sk-XXXXXXXXXXXXXXXXXXXXXX

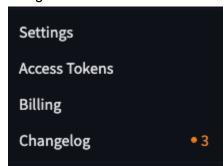
6. Add it to your .env file:

Test: Run in Python:

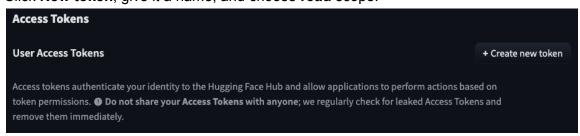
```
Python
import os
from openai import OpenAI
client = OpenAI(api_key=os.getenv("OPENAI_API_KEY"))
print("OpenAI key loaded successfully!" if client else "Key error")
```

# 2. Hugging Face API Key

- 1. Go to Hugging Face.
- 2. Sign in or create an account.
- 3. Navigate to **Profile Icon** → **Access Tokens**.



4. Click **New token**, give it a name, and choose **read** scope.



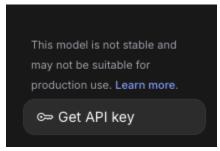
- 5. Copy the token (starts with hf\_...).
- 6. Add it to your .env file:

Test: Run in Python:

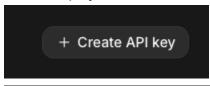
```
Python
from huggingface_hub import InferenceClient
import os
client = InferenceClient(model="mistralai/Mixtral-8x7B-Instruct-v0.1",
token=os.getenv("HUGGINGFACE_API_KEY"))
print("HF key loaded successfully!" if client else "Key error")
```

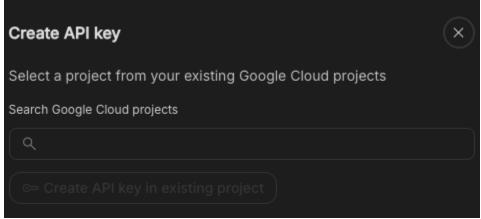
# 3. Google Gemini API Key

- 1. Go to Google Al Studio.
- 2. Sign in with your Google account.
- 3. On the left menu, click Get API key under "Google Al Studio".



4. Choose a project or create a new one.





5. Generate the key and copy it.

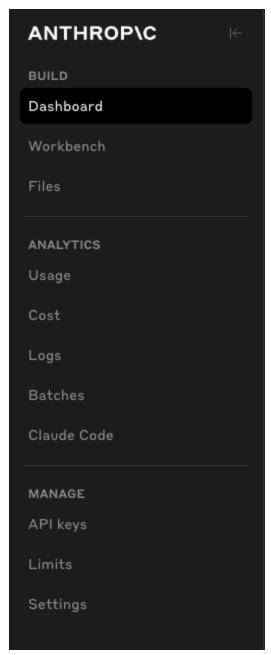
6. Add it to your .env file:

Test: Run in Python:

```
Python
import google.generativeai as genai, os
genai.configure(api_key=os.getenv("GEMINI_API_KEY"))
print("Gemini key loaded successfully!" if os.getenv("GEMINI_API_KEY") else
"Key error")
```

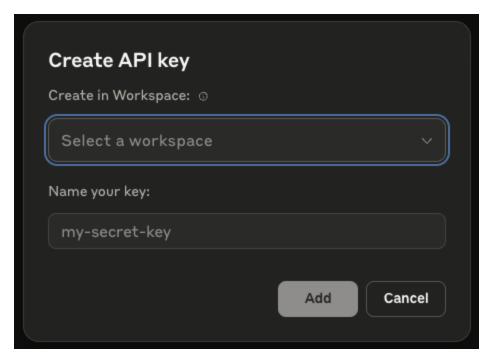
# 4. Anthropic API Key

- 1. Go to Anthropic Console.
- 2. Log in or create an account.
- 3. Navigate to API Keys from the sidebar.



4. Click Create Key, name it, and copy it.





5. Add it to your .env file:

#### Test: Run in Python:

```
Python
import anthropic, os
client = anthropic.Anthropic(api_key=os.getenv("ANTHROPIC_API_KEY"))
print("Anthropic key loaded successfully!" if client else "Key error")
```

# Final .env Example

#### 

### **i** Important:

- Never commit your . env file to GitHub.
- Always load it using python-dotenv:

Python

from dotenv import load\_dotenv
load\_dotenv()