

Jupyter Notebook

Installation

With pip

```
pip install notebook
```

Python Virtual Environment

With Python Venv

```
mkdir my-rag
cd my-rag
python -m venv .venv
source .venv/bin/activate
(my-rag)> pip install --upgrade pip
(my-rag)> pip install notebook
(my-rag)> jupyter notebook
```

With Conda

```
conda create -n my-rag python=3.10
conda activate my-rag
(my-rag)> pip install --upgrade pip
(my-rag)> pip install notebook
(my-rag)> jupyter notebook
```

UI ?????????????????????? ipykernel?

```
mkdir my-rag
cd my-rag
python -m venv .venv
source .venv/bin/activate
(my-rag)> pip install --upgrade pip
(my-rag)> pip install ipykernel
```

```
(my-rag)> ipython kernel install --user --name="my-rag-kernel"  
(my-rag)> jupyter notebook
```

Tips

Secure Authentication

1. In the top menu bar of the notebook editor, select **Add-ons** then **Secrets**.
2. Create a new secret with the label `GOOGLE_API_KEY`.
3. Paste your API key into the "Value" field and click "Save".
4. Ensure that the checkbox next to `GOOGLE_API_KEY` is selected so that the secret is attached to the notebook.

```
import os  
from kaggle_secrets import UserSecretsClient  
  
try:  
    GOOGLE_API_KEY = UserSecretsClient().get_secret("GOOGLE_API_KEY")  
    os.environ["GOOGLE_API_KEY"] = GOOGLE_API_KEY  
    print(" Gemini API key setup complete.")  
except Exception as e:  
    print(  
        f"Authentication Error: Please make sure you have added 'GOOGLE_API_KEY' to your  
Kaggle secrets. Details: {e}"  
    )
```

Resources

- [Online Test](#)
- [nbviewer](#) - A simple way to share Jupyter Notebooks

CoLab by Google

- [Google Colab](#) is Jupyter Notebooks that are hosted by Google's Colaboratory
- [Overview of Colaboratory Features](#)
- [Installing and using Python libraries in Colab](#)
- [Using Google Colab with GitHub](#)
- [Google Colab Tips for Power Users](#)

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