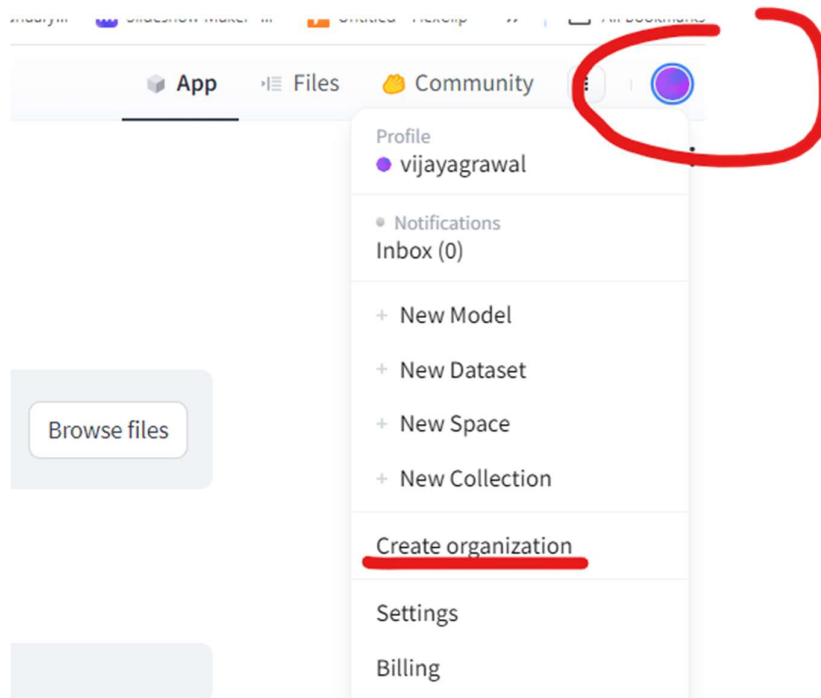


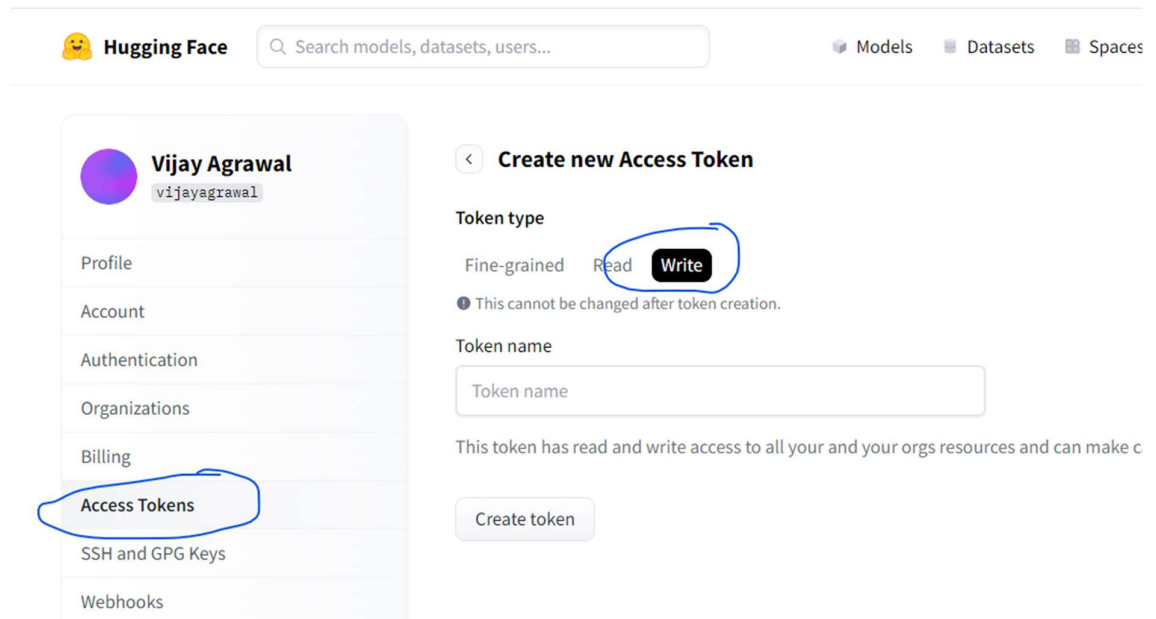
Steps to setup Huggingface project

- 1) Goto: <https://huggingface.co>
- 2) Create an account if you don't have one
- 3) Verify the account
- 4) Create an organization:



- 5) Create token in HF

From Settings:



Hugging Face Search models, datasets, users...

Models Datasets Spaces

Vijay Agrawal
vijayagrawal

Profile
Account
Authentication
Organizations
Billing
Access Tokens
SSH and GPG Keys
Webhooks

< **Create new Access Token**

Token type
Fine-grained Read **Write**

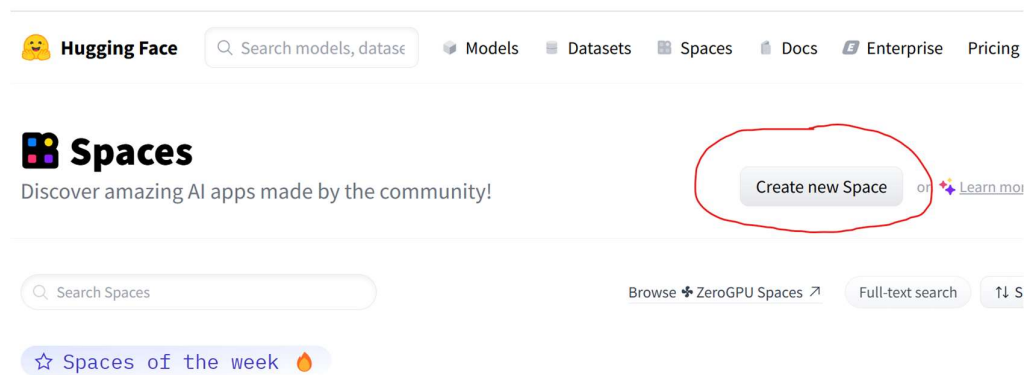
ⓘ This cannot be changed after token creation.

Token name
Token name

This token has read and write access to all your and your orgs resources and can make c

Create token

6) Create a new space:



Hugging Face Search models, dataset Models Datasets Spaces Docs Enterprise Pricing

Spaces
Discover amazing AI apps made by the community!

Create new Space or Learn more

Search Spaces Browse ZeroGPU Spaces Full-text search S

☆ Spaces of the week

- 7) Give it any name such as pdfchatbot or aichatbot

Create a new Space

Spaces are Git repositories that host application code for Machine Learning demos.

You can build Spaces with Python libraries like Streamlit or Gradio, or using Docker images.

Owner

vijayagrawal

Space name

pdfchatbot

Short description


Short Description


License


apache-2.0


Select the Space SDK

You can choose between Streamlit, Gradio and Static for your Space. Or pick Docker to host any other app.


Streamlit


Gradio
3 templates


Docker
15 templates


Static
3 templates

Space hardware

Free

CPU basic · 2 vCPU · 16 GB · FREE


You can switch to a different hardware at any time in your Space settings.
You will be billed for every minute of uptime on a paid hardware.

- 8) Note the git clone command it gives when you create the new space

- 9) Follow the instructions to clone the repository on your PC. For example:

mkdir hf

git clone(if git is not installed on your PC, see the git setup document)

 **Get started with your streamlit Space!**
Your new space has been created, follow these steps to get started (or read the full [documentation](#))

Start by cloning this repo by using:

HTTPS SSH

```
# When prompted for a password, use an access token with write permissions.  
# Generate one from your settings: https://huggingface.co/settings/tokens  
git clone https://huggingface.co/spaces/vijayagrawal/pdfchatbot
```

Create your Streamlit app.py file:

```
import streamlit as st  
  
x = st.slider('Select a value')  
st.write(x, 'squared is', x * x)
```

Then commit and push:

```
$ git add app.py  
$ git commit -m "Add application file"  
$ git push
```

Hint Alternatively, you can [create the app.py](#) file directly in your browser.

Finally, your Space should be running on this page after a few moments!

10) Once cloned, you can open VS code from the command prompt by issuing following prompt:

code .

Or you can start VS code and open the code folder

Add following files:

- a) app.py
- b) requirements.txt

in requirements.txt:

langchain-openai
langchain-community
langchain-text-splitters
chromadb
langchain
python-dotenv
openai
streamlit

11) Use the code present in **streamlit_chatbot_app.py** and the requirements.txt you have used previously in VS code. These files are available in the course content folder as well.

12) Commit and push the code to the HF repository
cd to the code folder

git status

should show the 2 files you just created

git add .

git status

git commit -am "updated space"

git push

(Make sure you are inside your app directory when issuing above commands)

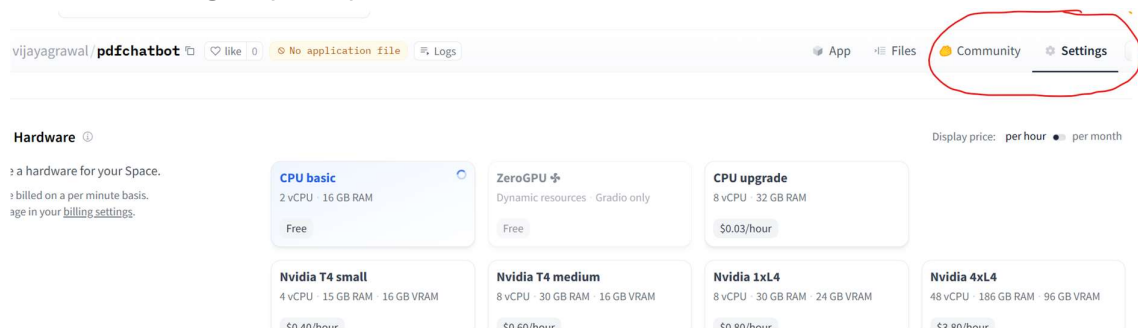
Use your HF account username to login.

Password is the secret write key you created in step 5 above

13) Refresh the HF application UI for your space. It will automatically build and restart the application.

14) In HF, add the secrets that need to be populated as environment variables:

Click on **Settings** in your space:



Scroll down to where secrets and variables are present:



Rename or transfer this space

All links to this space will automatically redirect to the new location, including git operations. However, to avoid confusion, we

Add the following secrets:

AZURE_OPENAI_ENDPOINT

AZURE_OPENAI_MODEL_DEPLOYMENT_NAME

AZURE_OPENAI_MODEL_NAME

AZURE_OPENAI_API_KEY

AZURE_OPENAI_API_VERSION

15) Your changes should be reflected in the application. Application will automatically build and restart – you should see the chatbot UI

Viewing your space

When you login again, you can view your spaces by going to your profile and clicking your profile name/icon

Making changes to your project

To edit the files in the project, do it in VS Code or any other IDE.

Make sure you edit app.py even if cosmetic (the project will rebuild in HF only if you touch it)

Checkin the code using git commands and push it to the repository.

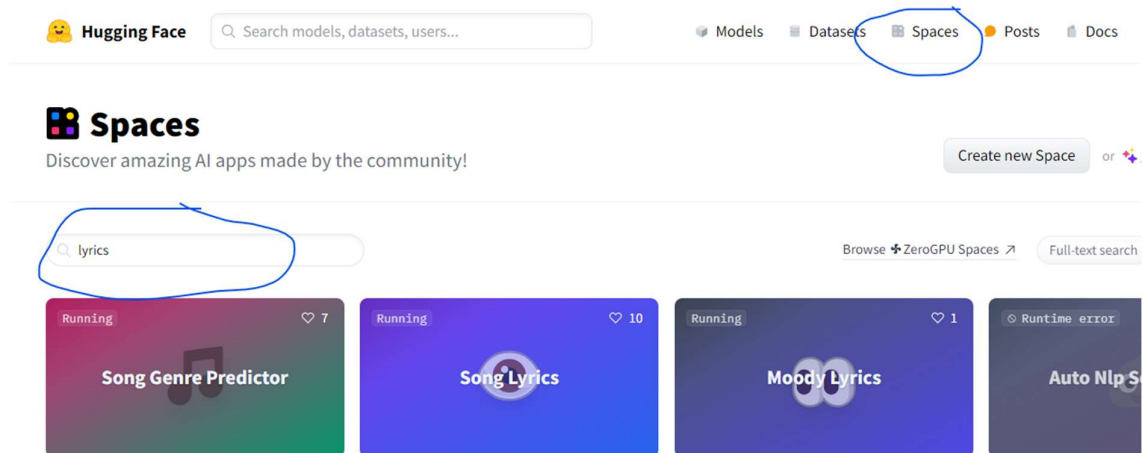
The application will automatically start building in HF

Duplicating an existing HF Space

HF has many spaces/codes/apps checked in by the community.

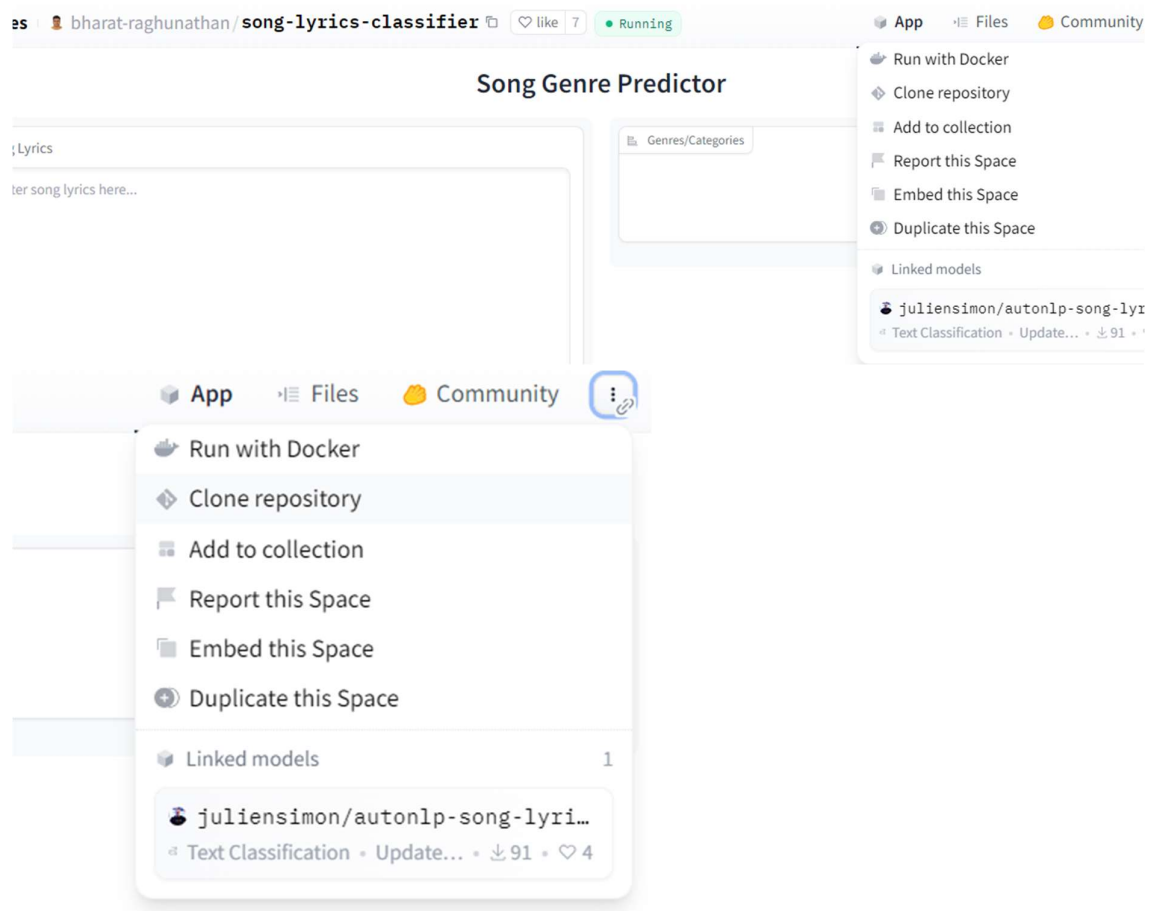
You can leverage existing work by cloning an existing space. Here are steps for the same:

- 1) Got spaces and search for any space based on functionality you wish to implement (such as pdf chat, audio, image object detection, music etc.)

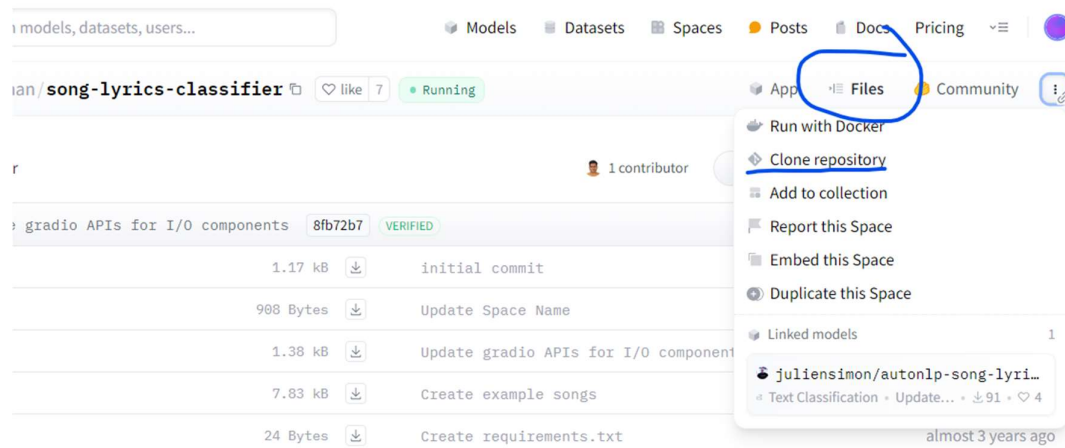


- 2) Click on the space to test it
Only choose spaces that have high like count to ensure good code

3) Duplicate the space:



4) Clone the HF git repos to your local machine. Goto “Files” and use the 3 dots and choose “Clone repository”



5) Edit the code and do a git commit and push as per the steps in the previous section