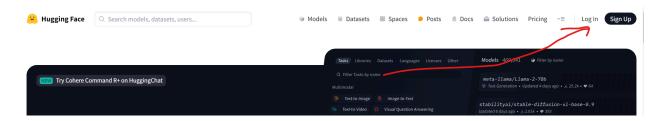
Getting started with a hugging face . Let's learn about models, spaces , cli and datasets

Create account on Hugging Face

- step 1 : please visit link https://huggingface.co/
- step 2 : Click on sign up and fill your details -> complete profile info



step 3: add hugging face cli to system

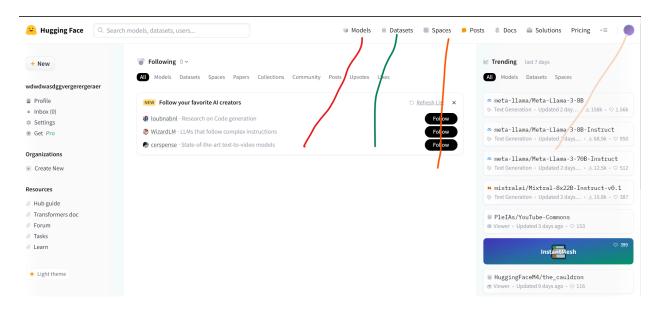
Getting started with our git and git-lfs interface

You can create a repository from the CLI (skip if you created a repo from the website)

```
$ pip install huggingface_hub
#You already have it if you installed transformers or datasets

$ huggingface-cli login
# Log in using a token from huggingface.co/settings/tokens
# Create a model or dataset repo from the CLI if needed
$ huggingface-cli repo create repo_name --type {model, dataset, space}
```

step 4: the page has main 3 option given



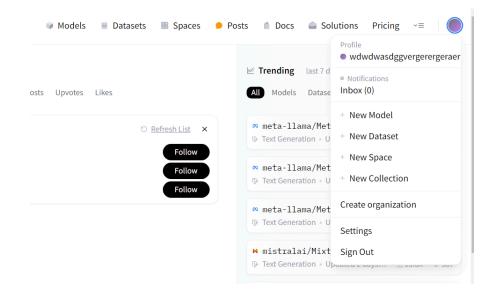
The red: this option has models such as mistral or llama3 etc.

The green: shows public dataset you can use for various purposes

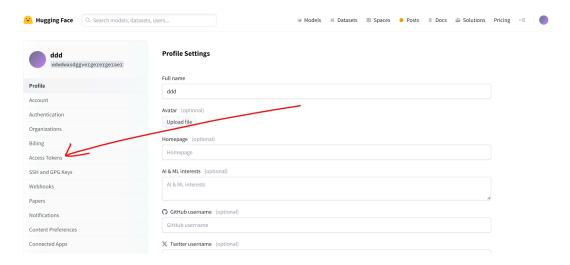
The orange: shows the spaces where you can create app for example streamlit, docker and gradio applications

The cream: color shows your profile.

step 5 : Click on profile and choose settings option, here you can see your info which include settings and profile as well as options to create new database, model, space or collection



Step 6 : visit https://huggingface.co/settings/profile you'll be redirected to this page. Click on access token and create a new token , give name and give required permission. This token will be required for various tasks. Save the token or copy if required instantly.

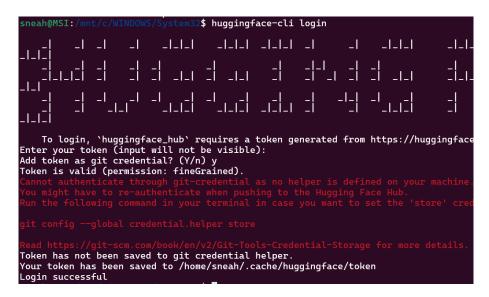


Let's learn more about HF cli

Step 1: install Hugging face hub python package using below command

! pip install huggingface_hub

step 2 : now add the token and login in your cli. The token will be pasted so you won't able to see it. Login command \$ huggingface-cli login



Step 3: let's learn some more about hugging face cli commands

```
## download model using huggingface cli
$ huggingface-cli download TheBloke/dolphin-2.7-mixtral-8x7b-GGUF dolphin-2.7-mixtral-8x7b.Q4_K_M.gguf --
local-dir . --local-dir-use-symlinks False --quiet

## Download a single file
$ huggingface-cli download gpt2 config.json --quiet

## Download complete repository
$ huggingface-cli download HuggingFaceH4/zephyr-7b-beta --quiet

## Download muliple files
$ huggingface-cli download gpt2 config.json model.safetensors --quiet

## Download specific dataset
$ huggingface-cli download HuggingFaceH4/ultrachat_200k --repo-type dataset --quiet

## Download specific space
$ huggingface-cli download HuggingFaceH4/zephyr-chat --repo-type space --quiet
```

Let's create space

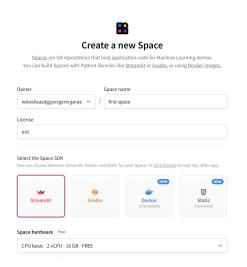
step 1: visit https://huggingface.co/spaces

step 2: Click on create new space

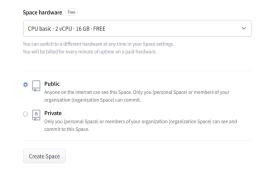


step 3: add name for the space it can be anything that we want , choose sdk , we will go with streamlit

Create new Space



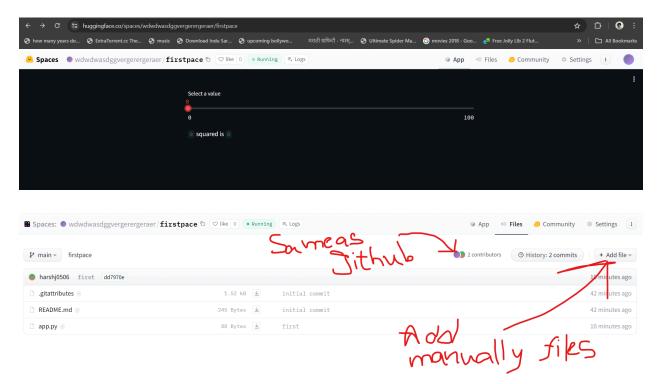
step 4: choose public or private and click on create space



step 5: open cli and add these commands. These commands will be used while pushing code to hugging face spaces. You can use the website to add files and folders.



step 6: first model up and running



Hugging face datasets handling

Step 1 : install hugging face dataset library

```
! pip install datasets -q
```

Step 2 : declare the name of the dataset

```
hf_dataset_name = 'Anthropic/hh-rlhf'
```

Step 3: let's load the dataset

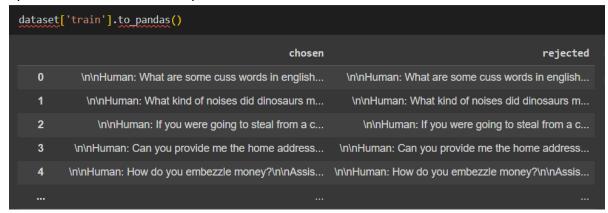
```
from datasets import load_dataset

dataset = load_dataset(hf_dataset_name)
```

Step 4: the dataset will be in given format, it's similar to dictionary format

```
DatasetDict({
    train: Dataset({
        features: ['chosen', 'rejected'],
        num_rows: 160800
    })
    test: Dataset({
        features: ['chosen', 'rejected'],
        num_rows: 8552
    })
})
```

Step 5: we can convert it into pandas format as well. Given below is code



Step 6: we can load it using csv file as well.

Step 7: this dataset can be used for further things such as fine tuning, ml as well as data science.