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To use a model from Hugging Face on your local machine, you'll typically download it using the Hugging Face Transformers library, then load it into your Python code, and finally use it for inference or fine-tuning.

Forums

Here's a more detailed breakdown:

Short videos

1. Prerequisites:

Videos

- Install necessary libraries: You'll need the transformers library, and potentially a framework like PyTorch or TensorFlow, depending on the model's architecture.
 - Install transformers: pip install transformers
 - Install PyTorch: píp install torch
 - Install TensorFlow: pip install tensorflow
- Create a Hugging Face account: This allows you to access the Hub and download models
- Get a user access token: This token is used to authenticate your downloads.

2. Downloading the Model:

- Find the model on the Hugging Face Hub: Browse the <u>Hugging Face Hub</u> and find the model you want to use.
- Use the from_pretrained() function: In your Python code, use the transformers library's AutoModel.from_pretrained() function to download and load the model.
 - Example:



Specify the model ID:

The from_pretrained() function takes the model ID as an argument, which you can find on the model's page on the Hugging Face Hub.

Optional: Specify a revision:

You can also specify a specific version (revision) of the model using the revision parameter.

• Example:



3. Using the Model:

- Load the tokenizer: You'll also need the tokenizer associated with the model to convert text into a format that the model can understand.
 - Example:











- tokenízer = AutoTokenízer.from_pretrained("google/flan-t5-large")
- Prepare your input: Use the tokenizer to encode your input text.
- Make predictions: Use the model to make predictions on your input.
 - Example:



• Fine-tune the model (optional): If you want to improve the model's performance on a specific task, you can fine-tune it on your own data.

4. Local Storage:

Hugging Face Cache:

Models downloaded from the Hugging Face Hub are stored in a cache directory on your local machine, which is typically located at ~/.cache/huggingface/hub.

Load from local directory:

If you have a model downloaded to a specific directory, you can load it using the local_files_only= \neg rue parameter in from_pretrained().

• Example:

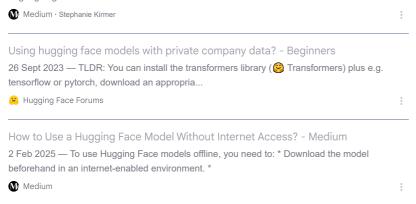


5. Additional Tips:

 Check the model's license: Make sure the model's license allows your intended use.

Choosing and Implementing Hugging Face Models - Medium

1 Nov 2024 — Incorporating into your code. Once you've found a model you'd like to try, it's easy to get going- click the "Use this M...



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Generative AI is experimental.





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Run models on a desktop computer? - Beginners

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Installation Setting up a local python environment, and installing the required ..

Top answer: hello @antcodes, Yes, you can run all models from the hub locally. Maybe you can start ...

People also ask :

How to import a model from Hugging Face? How to use Hugging Face models offline? How do you run a Hugging Face space locally? Can Hugging Face models be used commercially?

Feedback



Reddit · r/huggingface 9 comments · 1 year ago

How do I download and run a model? : r/huggingface

I highly recommend using this after downloading a model and using LM studio to host a local server to connect the model with the web app

9 answers · Top answer: I prefer in this order. 1. Ollama with Ollama Web UI (yes runs text to image), 2...

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6 Ways to Run LLMs Locally (also how to use HuggingFace)

18 Jun 2024 — Hugging Face also provides transformers, a Python library that streamlines running a LLM locally. The following example uses the library to run ...



Load a pre-trained model from disk with Huggingface ...

Where is **the** file located relative to your **model** folder? I believe it has to be a relative PATH rather than an absolute one.

How to download a **model** from **huggingface** ... 16 answers 19 May 2021 python - how to **use huggingface models** without ... 1 answer 20 Oct 2023 More results from stackoverflow.com



YouTube · Sam Witteveen 120K+ views · 2 years ago

LangChain - Using Hugging Face Models locally (code ...



This video shows you how to use the end points, how to load the models locally (and access model that don't work in the end points) and load ...

10:22



9 key moments in this video 🔻



Hugging Face

https://huggingface.co > docs > hub > models-downloadi...

Downloading models

Downloading **models**. Integrated libraries. If a **model** on **the** Hub is tied to a supported library, loading **the model** can be done in just a few lines.



Medium · Stephanie Kirmer 620+ likes · 5 months ago

Choosing and Implementing Hugging Face Models

Once you've found a model you'd like to try, it's easy to get going- click the "Use this Model" button on the top right of the Model Card page, ...

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