

Modified from DeepLearning.AI Hugging Face course

<https://learn.deeplearning.ai/courses/open-source-models-hugging-face/lesson/3/natural-language-processing-nlp>

```
!pip install transformers
```

```
Requirement already satisfied: transformers in /usr/local/lib/python3.10/dist-packages (4.38.2)
Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: huggingface-hub<1.0,>=0.19.3 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: tokenizers<0.19,>=0.14 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: safetensors>=0.4.1 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: fsspec>=2023.5.0 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from transformers)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from transformers)
```

```
# suppress warnings
```

```
from transformers.utils import logging
logging.set_verbosity_error()
```

```
from transformers import pipeline
```

```
# colab suggested this
```

```
# small model that only needs 1.6G of memory
```

```
chatbot = pipeline(task="conversational",
                   model="facebook/blenderbot-400M-distill")
```

```
/usr/local/lib/python3.10/dist-packages/huggingface_hub/utils/_token.py:88: UserWarning:
The secret `HF_TOKEN` does not exist in your Colab secrets.
To authenticate with the Hugging Face Hub, create a token in your settings tab (https://huggingface.co/settings/tokens).
You will be able to reuse this secret in all of your notebooks.
Please note that authentication is recommended but still optional to access public models or datasets
warnings.warn(
/usr/local/lib/python3.10/dist-packages/torch/_utils.py:831: UserWarning: TypedStorage is deprecated
return self.fget.__get__(instance, owner)()
```

```
user_message = ""
```

```
What are some fun activities I can do in the winter?
""
```

```
from transformers import Conversation
```

```
conversation = Conversation(user_message)
```

```
print(conversation)
```

```
Conversation id: fd887a10-8b3b-4164-8934-e8725a6c786d
user:
What are some fun activities I can do in the winter?
```

```
# or
print(chatbot(Conversation("What else do you recommend?")))

Conversation id: b6e82137-e901-4c1a-9eb5-0f4687598061
user: What else do you recommend?
assistant: Well, I'm not sure what else I can think of, but I do know that I'm going to miss her.

# the above has no memory of prior conversation, so could generate a random response

conversation.add_message(
    {"role": "user",
     "content": """"
What else do you recommend?
""""
    })

print(conversation)

Conversation id: fd887a10-8b3b-4164-8934-e8725a6c786d
user:
What are some fun activities I can do in the winter?

conversation = chatbot(conversation)

print(conversation)

Conversation id: fd887a10-8b3b-4164-8934-e8725a6c786d
user:
What are some fun activities I can do in the winter?

assistant: I like snowboarding and skiing. What do you like to do in winter?

conversation.add_message(
    {"role": "user",
     "content": """"
What activities do your recommend in the summer?
""""
    })

conversation = chatbot(conversation)

print(conversation)

Conversation id: fd887a10-8b3b-4164-8934-e8725a6c786d
user:
What are some fun activities I can do in the winter?

assistant: I like snowboarding and skiing. What do you like to do in winter?
user:
What activities do your recommend in the summer?

assistant: Snowboarding is a lot of fun. You can do it indoors or outdoors.
```

See [HuggingChat](#) to find open source models you can use.

URL is hf.co/chat

Start coding or generate with AI.