

```
# Install required packages
# pip install gradio transformers torch
!pip install gradio
import torch
import torch.nn as nn
import torch.optim as optim
from transformers import MarianMTModel, MarianTokenizer
import gradio as gr

# Load model and tokenizer
model_name = 'Helsinki-NLP/opus-mt-en-hi'
tokenizer = MarianTokenizer.from_pretrained(model_name)
model = MarianMTModel.from_pretrained(model_name)

# Define the translation function
def translate(text):
    tokenized_text = tokenizer.prepare_seq2seq_batch([text], return_tensors='pt')
    translation = model.generate(**tokenized_text)
    translated_text = tokenizer.decode(translation[0], skip_special_tokens=True)
    return translated_text

# Create the Gradio interface
iface = gr.Interface(
    fn=translate,
    inputs=gr.Textbox(label="Enter text to translate"),
    outputs=gr.Textbox(label="Translated text"),
    title="English to Hindi Translator",
    description="Enter English text and get the Hindi translation."
)

# Launch the interface
iface.launch()
```

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Collecting gradio
  Downloading gradio-5.25.2-py3-none-any.whl.metadata (16 kB)
Collecting aiofiles<25.0,>=22.0 (from gradio)
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Collecting ffmpy (from gradio)
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Collecting groovy~=0.1 (from gradio)
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Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)
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/usr/local/lib/python3.11/dist-packages/huggingface_hub/utils/_auth.py:94: 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), set it as secre
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(
tokenizer_config.json: 100% 44.0/44.0 [00:00<00:00, 2.55kB/s]
source.spm: 100% 812k/812k [00:00<00:00, 8.73MB/s]
target.spm: 100% 1.07M/1.07M [00:00<00:00, 33.5MB/s]
vocab.json: 100% 2.10M/2.10M [00:00<00:00, 20.9MB/s]
config.json: 100% 1.39k/1.39k [00:00<00:00, 110kB/s]
/usr/local/lib/python3.11/dist-packages/transformers/models/arian/tokenization_arian.py:175: UserWarning: Recommended: pip install sac
warnings.warn("Recommended: pip install sacremoses.")
pytorch_model.bin: 100% 306M/306M [00:01<00:00, 278MB/s]
model.safetensors: 100% 306M/306M [00:01<00:00, 204MB/s]
generation_config.json: 100% 293/293 [00:00<00:00, 17.8kB/s]
It looks like you are running Gradio on a hosted a Jupyter notebook. For the Gradio app to work, sharing must be enabled. Automatically
Colab notebook detected. To show errors in colab notebook, set debug=True in launch()
* Running on public URL: https://fa5e62fd2cb491cdf4.gradio.live
This share link expires in 1 week. For free permanent hosting and GPU upgrades, run `gradio deploy` from the terminal in the working dir
```

English to Hindi Translator

Enter English text and get the Hindi translation.

Enter text to translate

i am doing my work

Translated text

मैं अपना काम कर रहा हूँ