!nvidia-smi



→ Sun Jul 27 11:26:32 2025

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1 - TEXT GENERATION MODEL USING HF TRANSFORMER + GPT 2 MODEL)

Double-click (or enter) to edit

```
from transformers import pipeline
                                                      # NLP
generator = pipeline('text-generation', model='gpt2')
response = generator(' What is Hugging Face' , max_length = 40, num_return_sequences = 1)
print(response[0]['generated_text'])
```

→ Device set to use cuda:0

Truncation was not explicitly activated but `max_length` is provided a specific value, please use `truncation=True` to explicitly tr Setting `pad_token_id` to `eos_token_id`:50256 for open-end generation. Both `max_new_tokens` (=256) and `max_length` (=40) seem to have been set. `max_new_tokens` will take precedence. Please refer to the What is Hugging Face Pushing?

Hugging facial expressions are usually used to convey emotion or excitement, but also to help you relax or calm down.

There are many different types of facial expressions that you can use to express emotion. All different facial expressions are diffe So if you have a funny face, try to express it with the same gestures you would use to express your emotions.

I am a huge fan of Hugging Face Pushing and I love making fun of myself.

What do I do if I'm feeling really bad about myself?

If you're feeling really bad about yourself, you may want to try changing your facial expressions so that they are more neutral, mor

You can change your facial expressions by changing the smile you give to the person you're hugging.

If you feel like you're being too shy, try turning your face a little more toward the person you're hugging.

If you feel like you're being too tense (you're in a really bad mood), try turning your face slightly toward the person you're huggi

You can also change your facial expressions by changing your body language

2 - NER (NAMED ENTITY RECOGNITION)

```
from transformers import pipeline
                                                         # NLP
ner = pipeline('ner' , grouped entities = True)
entities = ner('Hugging face is based on NYC and partners Google with $200 dollar price')
print(entities)
```

```
No model was supplied, defaulted to dbmdz/bert-large-cased-finetuned-conll03-english and revision 4c53496 (<a href="https://huggingface.co/dl">https://huggingface.co/dl</a>
Using a pipeline without specifying a model name and revision in production is not recommended.

config.json: 100%

998/998 [00:00<00:00, 81.1kB/s]

model.safetensors: 100%

1.33G/1.33G [00:52<00:00, 15.5MB/s]
```

Some weights of the model checkpoint at dbmdz/bert-large-cased-finetuned-conll03-english were not used when initializing BertForToke - This IS expected if you are initializing BertForTokenClassification from the checkpoint of a model trained on another task or with - This IS NOT expected if you are initializing BertForTokenClassification from the checkpoint of a model that you expect to be exact tokenizer_config.json: 100% 60.0/60.0 [00:00<00:00, 5.49kB/s]

vocab.txt: 213k/? [00:00<00:00, 13.5MB/s]
Device set to use cuda:0

[{'entity_group': 'LOC', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 25, 'end': 28}, {'entity_group': 'ORG', 'score': np.float32(0.9951492), 'word': 'NYC', 'start': 28}, 'entity_group': 'NYC', 'start': 28}, 'entity_group': 'NYC', 'start': 28}, 'word': 'NYC', 'start'

Start coding or generate with AI.

model.safetensors: 100%

vocab.txt:

tokenizer config.json: 100%

Device set to use cuda:0

232k/? [00:00<00:00, 11.0MB/s]

[{'label': 'POSITIVE', 'score': 0.999874472618103}]

3 - SENTIMENT ANALYSIS USING GRADIO (PROJECT -1)

!pip install transformers datasets Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-packages (4.53.3) Requirement already satisfied: datasets in /usr/local/lib/python3.11/dist-packages (4.0.0) Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from transformers) (3.18.0) Requirement already satisfied: huggingface-hub<1.0,>=0.30.0 in /usr/local/lib/python3.11/dist-packages (from transformers) (0.33.4) Requirement already satisfied: numpy>=1.17 in /usr/local/lib/python3.11/dist-packages (from transformers) (2.0.2) Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.11/dist-packages (from transformers) (25.0) Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.11/dist-packages (from transformers) (6.0.2) Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.11/dist-packages (from transformers) (2024.11.6) Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from transformers) (2.32.3) Requirement already satisfied: tokenizers<0.22,>=0.21 in /usr/local/lib/python3.11/dist-packages (from transformers) (0.21.2) Requirement already satisfied: safetensors>=0.4.3 in /usr/local/lib/python3.11/dist-packages (from transformers) (0.5.3) Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.11/dist-packages (from transformers) (4.67.1) Requirement already satisfied: pyarrow>=15.0.0 in /usr/local/lib/python3.11/dist-packages (from datasets) (18.1.0) Requirement already satisfied: dill<0.3.9,>=0.3.0 in /usr/local/lib/python3.11/dist-packages (from datasets) (0.3.8) Requirement already satisfied: pandas in /usr/local/lib/python3.11/dist-packages (from datasets) (2.2.2) Requirement already satisfied: xxhash in /usr/local/lib/python3.11/dist-packages (from datasets) (3.5.0) Requirement already satisfied: multiprocess<0.70.17 in /usr/local/lib/python3.11/dist-packages (from datasets) (0.70.16) Requirement already satisfied: fsspec<=2025.3.0,>=2023.1.0 in /usr/local/lib/python3.11/dist-packages (from fsspec[http]<=2025.3.0,> Requirement already satisfied: aiohttp!=4.0.0a0,!=4.0.0a1 in /usr/local/lib/python3.11/dist-packages (from fsspec[http]<=2025.3.0,>= Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub<1.0,>=0. Requirement already satisfied: hf-xet<2.0.0,>=1.1.2 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub<1.0,>=0.30.0->t Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (3 Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (3.10) Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (2.5.0) Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests->transformers) (2025.7.1 Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas->datasets) (2.9.0.post Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas->datasets) (2025.2) Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-packages (from pandas->datasets) (2025.2) Requirement already satisfied: aiohappyeyeballs>=2.5.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1-) Requirement already satisfied: aiosignal>=1.4.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec[htt Requirement already satisfied: frozenlist>=1.1.1 in /usr/local/lib/python3.11/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.11/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fssr Requirement already satisfied: propcache>= 0.2.0 in /usr/local/lib/python 3.11/dist-packages (from aiohttp!= 4.0.0a0,!= 4.0.0a1-) fsspector (from aiohttp!= 4.0.0a1-) fsspector (fRequirement already satisfied: yarl<2.0,>=1.17.0 in /usr/local/lib/python3.11/dist-packages (from aiohttp!=4.0.0a0,!=4.0.0a1->fsspec Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.8.2->pandas->datasets) from transformers import pipeline classifier = pipeline('sentiment-analysis') result = classifier('I Love Hugging Face library very much, it is so nice') print(result) No model was supplied, defaulted to distilbert/distilbert-base-uncased-finetuned-sst-2-english and revision 714eb0f (https://huggin Using a pipeline without specifying a model name and revision in production is not recommended. config.ison: 100% 629/629 [00:00<00:00 40 7kB/s]

> 268M/268M [00:06<00:00, 50.7MB/s] 48.0/48.0 [00:00<00:00, 5.40kB/s]

```
7/27/25. 6:33 PM
                                                                                                     Copy of HF BOOTCAMP.ipynb - Colab
      from transformers import pipeline
      classifier = pipeline('sentiment-analysis')
      result = classifier( 'the food is not tasty')
      print(result)
            No model was supplied, defaulted to distilbert/distilbert-base-uncased-finetuned-sst-2-english and revision 714eb0f (https://hugging
              Using a pipeline without specifying a model name and revision in production is not recommended.
              Device set to use cuda:0
              [{'label': 'NEGATIVE', 'score': 0.9997794032096863}]
      !pip install gradio
       Requirement already satisfied: gradio in /usr/local/lib/python3.11/dist-packages (5.38.1)
              Requirement already satisfied: aiofiles<25.0,>=22.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (24.1.0)
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              Requirement already satisfied: groovy~=0.1 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.1.2)
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              Requirement already satisfied: pillow<12.0,>=8.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (11.3.0)
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              Requirement already satisfied: click>=8.0.0 in /usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12->gradio) (8.2.1)
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      import gradio as gr
      from\ transformers\ import\ pipeline
```

```
classifier = pipeline("sentiment-analysis")
def analyze_sentiment(text):
 return classifier(text)[0]['label']
gr.Interface(fn = analyze_sentiment , inputs='text', outputs='text').launch()
```

No model was supplied, defaulted to distilbert/distilbert-base-uncased-finetuned-sst-2-english and revision 714eb0f (https://hugging Using a pipeline without specifying a model name and revision in production is not recommended. Device set to use cuda:0

It looks like you are running Gradio on a hosted Jupyter notebook, which requires `share=True`. Automatically setting `share=True`

Colab notebook detected. To show errors in colab notebook, set debug=True in launch() * Running on public URL: https://8b24a@aade5ff71c01.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



No interface is running right now

Double-click (or enter) to edit

4 - TEXT TO IMAGE MODEL USING DIFFUSION PIPELINE(PROJECT - 2)

```
from\ diffusers\ import\ Stable Diffusion Pipeline
import torch
model_id = "sd-legacy/stable-diffusion-v1-5"
pipe = StableDiffusionPipeline.from_pretrained(model_id, torch_dtype=torch.float16)
pipe = pipe.to("cuda")
prompt = "a lake beautiful nature and water falls with butterflies nd birds"
image = pipe(prompt).images[0]
image.save("a beatiful nature.png")
```

```
model_index.json: 100%
                                                                       541/541 [00:00<00:00, 48.2kB/s]
      Fetching 15 files: 100%
                                                                        15/15 [00:30<00:00, 2.07s/it]
                                                                              342/342 [00:00<00:00, 5.42kB/s]
     preprocessor_config.json: 100%
     config.json: 100%
                                                                  617/617 [00:00<00:00, 13.4kB/s]
Start coding or generate with AI.
      0011000101_001111g.j0011. 10070
                                                                            import gradio as gr
from diffusers import StableDiffusionPipeline
import torch
model_id = "sd-legacy/stable-diffusion-v1-5"
pipe = StableDiffusionPipeline.from_pretrained(model_id, torch_dtype=torch.float16)
pipe = pipe.to("cuda")
def generate_image(prompt):
  image = pipe(prompt).images[0]
  #image.save(f"outputs/{prompt}.png")
  return image
# create ui frontend
gr.Interface(
    fn = generate_image ,
    inputs = gr.Textbox(label='Enter your prompt', placeholder = "a lake beautiful nature and water falls with butterflies nd birds"),
    outputs = gr.Image(type='pil' , label='Generated Image'),
title = 'savitri reddy Text - Image Generator' ,
    description = 'Enter your prompt abd see the generated image'
).launch()
Loading pipeline components...: 100%
                                                                                    7/7 [00:23<00:00, 2.91s/it]
     It looks like you are running Gradio on a hosted Jupyter notebook, which requires `share=True`. Automatically setting `share=True`
     Colab notebook detected. To show errors in colab notebook, set debug=True in launch()
     * Running on public URL: <a href="https://a943f9c8a42a7422d4.gradio.live">https://a943f9c8a42a7422d4.gradio.live</a>
     This share link expires in 1 week. For free permanent hosting and GPU upgrades, run `gradio deploy` from the terminal in the working
```

savitri reddy Text - Image Generator

Enter your prompt abd see the generated image

