

```
from transformers import pipeline
```

```
image_captioner = pipeline("image-to-text", model='salesforce/blip-image-captioning-large', device=0)
```

```

model.safetensors: 100% 1.88G/1.88G [00:18<00:00, 158MB/s]
tokenizer_config.json: 100% 527/527 [00:00<00:00, 51.2kB/s]
vocab.txt: 100% 232k/232k [00:00<00:00, 1.90MB/s]
tokenizer.json: 100% 711k/711k [00:00<00:00, 3.91MB/s]
special_tokens_map.json: 100% 125/125 [00:00<00:00, 10.7kB/s]
preprocessor_config.json: 100% 445/445 [00:00<00:00, 47.1kB/s]
Using a slow image processor as `use_fast` is unset and a slow processor was saved with this model. `use_fast=True` will be the default
Device set to use cpu

```

```

image = r'/content/ima.html'
caption=image_captioner(image)
caption[0].get('generated_text')

```

```
'araffv nomeranian dog standing on a concrete sten in front of a blue wall'
```

```
vqa = pipeline("vqa")
```

```

No model was supplied, defaulted to dandelin/vilt-b32-finetuned-vqa and revision d0a1f6a (https://huggingface.co/dandelin/vilt-b32-finet)
Using a pipeline without specifying a model name and revision in production is not recommended.
Device set to use cpu

```

```
image = r'/content/ima.html'
```

```

q = input('Ask a question about the image: ')
result = vqa(image, q)
result

```

```

Ask a question about the image: whta is the bread name of the dog
[{'score': 0.21233993768692017, 'answer': 'shih tzu'},
 {'score': 0.09027747064828873, 'answer': 'no'},
 {'score': 0.08233464509248734, 'answer': "don't know"},
 {'score': 0.07000336050987244, 'answer': 'unknown'},
 {'score': 0.04398464038968086, 'answer': 'not sure'}]

```

```
!pip install diffusers
```

```
import torch
```

```
from diffusers import DiffusionPipeline
```

```

generator = DiffusionPipeline.from_pretrained("CompVis/stable-diffusion-v1-4")
generator.to("cpu")

```

```

Requirement already satisfied: diffusers in /usr/local/lib/python3.11/dist-packages (0.33.1)
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Loading pipeline components...: 100%
7/7 [00:02<00:00, 3.13it/s]

```

```

StableDiffusionPipeline {
  "_class_name": "StableDiffusionPipeline",
  "_diffusers_version": "0.33.1",
  "_name_or_path": "CompVis/stable-diffusion-v1-4",
  "feature_extractor": [
    "transformers",
    "CLIPImageProcessor"
  ],
  "image_encoder": [
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    null
  ],
  "requires_safety_checker": true,
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    "stable_diffusion",
    "StableDiffusionSafetyChecker"
  ],
  "scheduler": [
    "diffusers",
    "PNDMScheduler"
  ],
  "text_encoder": [
    "transformers",
    "CLIPTextModel"
  ],
  "tokenizer": [
    "transformers",
    "CLIPTokenizer"
  ],
  "unet": [
    "diffusers",
    "UNet2DConditionModel"
  ],
  "vae": [
    "diffusers",
    "AutoencoderKL"
  ]
}

```

```

prompt = input("Enter the prompt: ")
image = generator(prompt).images[0]
image

```

Enter the prompt: sleepy dog

100%

50/50 [33:10<00:00, 39.97s/it]



```
from transformers import pipeline
img_cls = pipeline("image-classification")
```

No model was supplied, defaulted to google/vit-base-patch16-224 and revision 3f49326 (<https://huggingface.co/google/vit-base-patch16-224>). Using a pipeline without specifying a model name and revision in production is not recommended.

config.json: 100% 69.7k/69.7k [00:00<00:00, 959kB/s]

Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to regular HTTP download. For better performance, install the 'hf_xet' package. WARNING:huggingface_hub.file_download:Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to regular HTTP download.

model.safetensors: 100% 346M/346M [00:03<00:00, 127MB/s]

preprocessor_config.json: 100% 160/160 [00:00<00:00, 11.5kB/s]


Fast image processor class <class 'transformers.models.vit.image_processing_vit_fast.ViTImageProcessorFast'> is available for this model. Device set to use cpu

```
img = "https://images.theconversation.com/files/625049/original/file-20241010-15-95v3ha.jpg?ixlib=rb-4.1.0&rect=12%2C96%2C2671%2C1335&q=45&auto=compress&cs=tinysrgb&format=webp"
```

```
r = img_cls(img)
r
```

```
[{'label': 'golden retriever', 'score': 0.9863792657852173},
 {'label': 'Labrador retriever', 'score': 0.004140913486480713},
 {'label': 'Irish setter, red setter', 'score': 0.001525905798189342},
 {'label': 'tennis ball', 'score': 0.000760365161113441},
 {'label': 'flat-coated retriever', 'score': 0.0004193736531306058}]
```

```
det = pipeline("object-detection")
```

 No model was supplied, defaulted to facebook/detr-resnet-50 and revision 1d5f47b (<https://huggingface.co/facebook/detr-resnet-50>). Using a pipeline without specifying a model name and revision in production is not recommended.

config.json: 100% 4.59k/4.59k [00:00<00:00, 367kB/s]

Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to regular HTTP download. For better performance
WARNING:huggingface_hub.file_download:Xet Storage is enabled for this repo, but the 'hf_xet' package is not installed. Falling back to regular HTTP download.

model.safetensors: 100% 167M/167M [00:12<00:00, 15.3MB/s]

model.safetensors: 100% 102M/102M [00:01<00:00, 89.0MB/s]

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```

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https://colab.research.google.com/drive/1HExPwBba_G2xPj_bvn7ihx4TZcypV0qR#scrollTo=iAKYnRUeKOZV&printMode=true

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```

Some weights of the model checkpoint at facebook/detr-resnet-50 were not used when initializing DetrForObjectDetection: ['model.backbone
- This IS expected if you are initializing DetrForObjectDetection from the checkpoint of a model trained on another task or with another
- This IS NOT expected if you are initializing DetrForObjectDetection from the checkpoint of a model that you expect to be exactly ident

preprocessor_config.json: 100%

290/290 [00:00<00:00, 11.6kB/s]

Device set to use cpu


```
r = det("https://images.theconversation.com/files/625049/original/file-20241010-15-95v3ha.jpg?ixlib=rb-4.1.0&rect=12%2C96%2C2671%2C1335&q=45
```

```
r
```

```
[[{'score': 0.9991955161094666,
  'label': 'dog',
  'box': {'xmin': 485, 'ymin': 48, 'xmax': 985, 'ymax': 621}}]]
```

```
!pip install deepface
```

```
Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from gdown>=3.10.1->deepface) (3.18.0)
Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-packages (from gunicorn>=20.1.0->deepface) (24.2)
Requirement already satisfied: absl-py in /usr/local/lib/python3.11/dist-packages (from keras>=2.2.0->deepface) (1.4.0)
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Collecting lz4>=4.3.3 (from mtcnn>=0.1.0->deepface)
  Downloading lz4-4.4.4-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (3.8 kB)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas>=0.23.4->deepface) (2.9.
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Requirement already satisfied: astunparse>=1.6.0 in /usr/local/lib/python3.11/dist-packages (from tensorflow>=1.9.0->deepface) (1.6.3)
Requirement already satisfied: flatbuffers>=24.3.25 in /usr/local/lib/python3.11/dist-packages (from tensorflow>=1.9.0->deepface) (25.
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108.6/108.6 kB 10.2 MB/s eta 0:00:00
Downloading flask_cors-6.0.0-py3-none-any.whl (11 kB)
Downloading gunicorn-23.0.0-py3-none-any.whl (85 kB)
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Downloading mtcnn-1.0.0-py3-none-any.whl (1.9 MB)
1.9/1.9 MB 47.1 MB/s eta 0:00:00
Downloading retina_face-0.0.17-py3-none-any.whl (25 kB)
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1.3/1.3 MB 64.4 MB/s eta 0:00:00
Building wheels for collected packages: fire
  Building wheel for fire (setup.py) ... done
  Created wheel for fire: filename=fire-0.7.0-py3-none-any.whl size=114249 sha256=b0fc747a8ce43a57f4c9576b6fe8c9cf05f17d180083516722ea
  Stored in directory: /root/.cache/pip/wheels/46/54/24/1624fd5b8674eb118623f7e8e17cdf7c0f6c24b069dfb8a89
Successfully built fire
Installing collected packages: lz4, gunicorn, fire, mtcnn, flask-cors, retina-face, deepface
Successfully installed deepface-0.0.93 fire-0.7.0 flask-cors-6.0.0 gunicorn-23.0.0 lz4-4.4.4 mtcnn-1.0.0 retina-face-0.0.17
```

```
!pip install deepface librosa SpeechRecognition
```



Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.11/dist-packages (from gdown>=3.10.1->deepface) (4.13.4)

Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from gdown>=3.10.1->deepface) (3.18.0)

Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-packages (from gunicorn>=20.1.0->deepface) (24.2)

Requirement already satisfied: absl-py in /usr/local/lib/python3.11/dist-packages (from keras>=2.2.0->deepface) (1.4.0)

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Requirement already satisfied: llvmlite<0.44,>=0.43.0dev0 in /usr/local/lib/python3.11/dist-packages (from numba>=0.51.0->librosa) (0.43.0)

Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas>=0.23.4->deepface) (2.9.0)

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Requirement already satisfied: platformdirs>=2.5.0 in /usr/local/lib/python3.11/dist-packages (from pooch>=1.1->librosa) (4.3.8)

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Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.11/dist-packages (from requests>=2.27.1->deepface) (2025.4.14)

Requirement already satisfied: threadpoolctl>=3.1.0 in /usr/local/lib/python3.11/dist-packages (from scikit-learn>=1.1.0->librosa) (3.5.0)

Requirement already satisfied: cffi>=1.0 in /usr/local/lib/python3.11/dist-packages (from soundfile>=0.12.1->librosa) (1.17.1)

Requirement already satisfied: astunparse>=1.6.0 in /usr/local/lib/python3.11/dist-packages (from soundfile>=0.12.1->librosa) (1.6.3)

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Requirement already satisfied: wheel<1.0,>=0.23.0 in /usr/local/lib/python3.11/dist-packages (from astunparse>=1.6.0->tensorflow>=1.9.0->deepface) (0.45.1)

Requirement already satisfied: pycparser in /usr/local/lib/python3.11/dist-packages (from cffi>=1.0->soundfile>=0.12.1->librosa) (2.22)

Requirement already satisfied: markdown>=2.6.8 in /usr/local/lib/python3.11/dist-packages (from tensorboard<2.19,>=2.18->tensorflow>=1.9.0->deepface) (3.7.0)

Requirement already satisfied: tensorboard-data-server<0.8.0,>=0.7.0 in /usr/local/lib/python3.11/dist-packages (from tensorboard<2.19,>=2.18->tensorflow>=1.9.0->deepface) (0.20.0)

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