

```
pip install diffusers transformers accelerate torch

Requirement already satisfied: diffusers in
/usr/local/lib/python3.12/dist-packages (0.36.0)
Requirement already satisfied: transformers in
/usr/local/lib/python3.12/dist-packages (4.57.3)
Requirement already satisfied: accelerate in
/usr/local/lib/python3.12/dist-packages (1.12.0)
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Requirement already satisfied: filelock in
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Requirement already satisfied: httpx<1.0.0 in
/usr/local/lib/python3.12/dist-packages (from diffusers) (0.28.1)
Requirement already satisfied: huggingface-hub<2.0,>=0.34.0 in
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Requirement already satisfied: regex!=2019.12.17 in
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(3.4.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in
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(2.5.0)

import torch
from diffusers import StableDiffusionPipeline
import os

# Load pre-trained Stable Diffusion model
model_id = "runwayml/stable-diffusion-v1-5"
pipe = StableDiffusionPipeline.from_pretrained(
    model_id,
    torch_dtype=torch.float16
)

# Use GPU if available
pipe = pipe.to("cuda" if torch.cuda.is_available() else "cpu")

# Create folder to store synthetic dataset
output_dir = "synthetic_image_dataset"
os.makedirs(output_dir, exist_ok=True)

# Input prompts
prompts = [
    "A futuristic city at night with neon lights",
    "A realistic portrait of an old man with wrinkles",
    "A robot studying in a university classroom",
    "A peaceful village near mountains during sunrise",
    "An astronaut walking on Mars in cinematic style"
]

# Generate and save images
for i, prompt in enumerate(prompts):
    image = pipe(prompt).images[0]
    image.save(f"{output_dir}/image_{i+1}.png")

print("Synthetic image dataset generated successfully!")
```

Flax classes are deprecated and will be removed in Diffusers v1.0.0.
We recommend migrating to PyTorch classes or pinning your version of
Diffusers.

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```
/usr/local/lib/python3.12/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
secret in your Google Colab and restart your session.
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(
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`torch_dtype` is deprecated! Use `dtype` instead!

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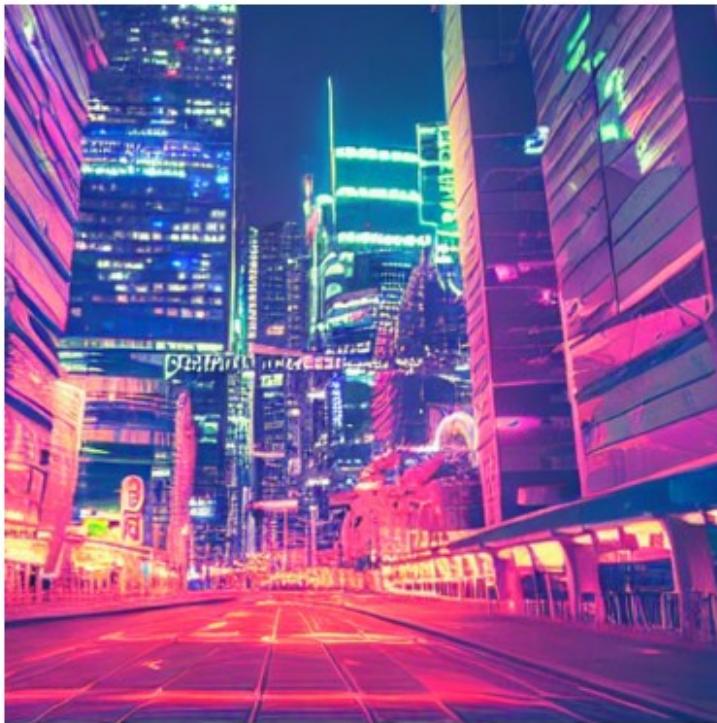
 {"model_id": "59f702b9b91d4edda9319352f07e10dc", "version_major": 2, "version_minor": 0}

Synthetic image dataset generated successfully!

from PIL import Image
import matplotlib.pyplot as plt

img = Image.open("synthetic_image_dataset/image_1.png")
plt.imshow(img)
plt.axis("off")

(np.float64(-0.5), np.float64(511.5), np.float64(511.5), np.float64(-0.5))
```



Cat dataset

```
pip install diffusers transformers accelerate torch pillow tqdm
Requirement already satisfied: diffusers in
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Requirement already satisfied: pillow in
/usr/local/lib/python3.12/dist-packages (11.3.0)
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Requirement already satisfied: regex!=2019.12.17 in
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/usr/local/lib/python3.12/dist-packages (from requests->diffusers)
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import torch
from diffusers import StableDiffusionPipeline
import os
from tqdm import tqdm

# Load pre-trained Stable Diffusion model
model_id = "runwayml/stable-diffusion-v1-5"
pipe = StableDiffusionPipeline.from_pretrained(
    model_id,
    torch_dtype=torch.float16
```

```

)
pipe = pipe.to("cuda" if torch.cuda.is_available() else "cpu")

# Cat species list (42)
cat_species = [
    "Abyssinian cat", "American Bobtail cat", "American Curl cat",
    "American Shorthair cat", "American Wirehair cat", "Balinese cat",
    "Bengal cat", "Birman cat", "Bombay cat", "British Shorthair cat",
    "Burmese cat", "Burmilla cat", "Chartreux cat", "Cornish Rex cat",
    "Devon Rex cat", "Egyptian Mau cat", "European Shorthair cat",
    "Exotic Shorthair cat", "Havana Brown cat", "Himalayan cat",
    "Japanese Bobtail cat", "Korat cat", "LaPerm cat", "Maine Coon
cat",
    "Manx cat", "Norwegian Forest cat", "Ocicat",
    "Oriental Shorthair cat", "Persian cat", "Ragdoll cat",
    "Russian Blue cat", "Savannah cat", "Scottish Fold cat",
    "Selkirk Rex cat", "Siamese cat", "Siberian cat",
    "Singapura cat", "Somali cat", "Sphynx cat",
    "Tonkinese cat", "Turkish Angora cat", "Turkish Van cat"
]
# Output directory
dataset_dir = "synthetic_cat_dataset"
os.makedirs(dataset_dir, exist_ok=True)

# Generate images
for species in tqdm(cat_species):
    species_dir = os.path.join(dataset_dir, species.replace(" ", "_"))
    os.makedirs(species_dir, exist_ok=True)

    for i in range(10):
        prompt = f"A high quality realistic photo of a {species},
professional photography, detailed fur"
        image = pipe(prompt).images[0]
        image.save(f"{species_dir}/img_{i+1}.png")

print("Synthetic cat species dataset generated successfully!")

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0%|          | 0/42 [00:00<?, ?it/s]

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5%|

| 2/42 [02:38<52:51, 79.29s/it]

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7%|

| 3/42 [04:00<52:21, 80.55s/it]

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10% | [ 4/42 [05:21<51:03, 80.61s/it]

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14%|██████████ | 6/42 [07:57<47:27, 79.10s/it]

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21% | [ 9/42 [11:50<43:03, 78.30s/it]

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31%|███████ | 13/42 [17:02<37:43, 78.04s/it]

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33% |██████████| 14/42 [18:20<36:24, 78.02s/it]

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Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

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36%|███████ | 15/42 [19:38<35:04, 77.94s/it]

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38%|███████ | 16/42 [20:56<33:45, 77.90s/it]

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40% | [ 17/42 [22:14<32:27, 77.90s/it]

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Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

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43% | [██████] | 18/42 [23:32<31:09, 77.89s/it]

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45% | [██████] | 19/42 [24:50<29:51, 77.91s/it]

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48% | [██████] | 20/42 [26:08<28:35, 77.95s/it]

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50% | [██████] | 21/42 [27:26<27:17, 77.97s/it]

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52% |██████████| 22/42 [28:43<25:59, 77.96s/it]

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Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

{"model_id": "98a74cbf4c1c464aa567345bd29d1792", "version_major": 2, "version_minor": 0}

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55%|██████████| 23/42 [30:01<24:39, 77.89s/it]

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57%|██████████| 24/42 [31:19<23:22, 77.90s/it]

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Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

 {"model_id": "a3e3ae5973934d2485632df0b424e859", "version_major": 2, "version_minor": 0}
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60%|███████ | 25/42 [32:37<22:04, 77.90s/it]

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62% | [██████] | 26/42 [33:55<20:46, 77.94s/it]

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64% | [██████] | 27/42 [35:13<19:29, 77.94s/it]

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Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

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Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

67% | ██████████ | 28/42 [36:31<18:10, 77.90s/it]

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69% | ██████████ | 29/42 [37:49<16:53, 77.96s/it]

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71%|██████████| 30/42 [39:07<15:36, 78.01s/it]

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74% |██████████| 31/42 [40:25<14:17, 77.99s/it]

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76% |██████████| 32/42 [41:43<12:59, 77.98s/it]

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79%|██████████| 33/42 [43:01<11:41, 77.97s/it]

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81% | ██████████ | 34/42 [44:19<10:23, 77.98s/it]

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83% | ██████████ | 35/42 [45:37<09:05, 77.94s/it]

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86% |██████████| 36/42 [46:54<07:47, 77.87s/it]

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88% |██████████| 37/42 [48:12<06:29, 77.87s/it]

{"model_id": "219115204cdd460dafb895b691902ff3", "version_major": 2, "version_minor": 0}

{"model_id": "906ce76df34649e0b3a2640b513cb9cb", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "54729fcd3ecd43309b6bfe5f7e2d344c", "version_major": 2, "version_minor": 0}

{"model_id": "bca97b9abd6449758daba6fd6b87b6bc", "version_major": 2, "version_minor": 0}

{"model_id": "3fce35e478b648619a5ee91fe7d8fa5a", "version_major": 2, "version_minor": 0}

{"model_id": "18c115de7a7f440fa7490a713a4b8712", "version_major": 2, "version_minor": 0}

{"model_id": "15bf6b11fa8d45538840883e1db332e6", "version_major": 2, "version_minor": 0}

{"model_id": "8a3f963373d64e6daff27cc9129d8c4b", "version_major": 2, "version_minor": 0}

{"model_id": "69be8db5a9f84921a431ca3918cd0f02", "version_major": 2, "version_minor": 0}

{"model_id": "09ddaa411e6240bc9548cb5770a31cb7", "version_major": 2, "version_minor": 0}
```

90% |██████████| 38/42 [49:30<05:11, 77.82s/it]

```
{"model_id": "c65cc02596844bc5a0ec3bf1c462e62a", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "f63a545980ce4698b47d93689d494658", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "3454a4bf8ad34a1ea5a26d46ece08433", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "318a0f3edbf14d0cba0e8e7444a77124", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "55de9524ecd14c5c9df38341ba08bff3", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "a0aacd7a4e524ea9a4da25c76f264607", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "5e1db1e0e94e41a4bd11312bc82fc0df", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "0fc91c4bfdd0449e928abc31ebf72cab", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "d2e7929c10414db2aba27b41ab4405d8", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

```
{"model_id": "549246678cf24b3086d2c8a71e60a6ef", "version_major": 2, "version_minor": 0}
```

Potential NSFW content was detected in one or more images. A black image will be returned instead. Try again with a different prompt and/or seed.

93% |██████████| 39/42 [50:47<03:52, 77.53s/it]

```
{"model_id": "312e31a47d6d4f45b6f3142db9599b45", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "4e00413e1b47459c9b38eac964e4ce36", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "128929635e94449da10fa1dac53621a8", "version_major": 2, "version_minor": 0}
```

```
{"model_id": "528d42fbe25e4abeb14b49a0e56c3930", "version_major": 2, "version_minor": 0}

{"model_id": "901d9d7ab3854a0281d00c11abfea6ca", "version_major": 2, "version_minor": 0}

{"model_id": "5b23cd55642d498b8cda771dea69ff94", "version_major": 2, "version_minor": 0}

{"model_id": "d355246cedfd4c08b33a1fd8fbce2915", "version_major": 2, "version_minor": 0}

{"model_id": "bf98c98329d9437cbc107267ebe86671", "version_major": 2, "version_minor": 0}

{"model_id": "92a7334af0aa45bc9f5b05aff9b2960e", "version_major": 2, "version_minor": 0}

{"model_id": "bbfe33b1915b42df8bdeaa171773eb98", "version_major": 2, "version_minor": 0}

95%|██████████| 40/42 [52:05<02:35, 77.57s/it]

{"model_id": "40f74114a796403ea221c5e4935e4f96", "version_major": 2, "version_minor": 0}

{"model_id": "19ac0a9244734306835078698588521c", "version_major": 2, "version_minor": 0}

{"model_id": "7b3725f7bffe43878cf17831fb5bfa4", "version_major": 2, "version_minor": 0}

{"model_id": "5c592a2e1f0949309c12d560060ce497", "version_major": 2, "version_minor": 0}

{"model_id": "cba674c177394cb394a155ebc6bfd462", "version_major": 2, "version_minor": 0}

{"model_id": "d11286655e2047698e80abf10fb6fb13", "version_major": 2, "version_minor": 0}

{"model_id": "797acle661884984a3273c8343896f42", "version_major": 2, "version_minor": 0}

{"model_id": "602839fb71404b7bbbd35d495d23b8e8", "version_major": 2, "version_minor": 0}

{"model_id": "133bca6fa142422c8092f7ef37cc2fa1", "version_major": 2, "version_minor": 0}

{"model_id": "893f8c5853c14271blala8010facd8fa", "version_major": 2, "version_minor": 0}
```

```
98%|██████████| 41/42 [53:22<01:17, 77.64s/it]
```

```
{"model_id": "0f98ed73a0514978b73a815619a19c4c", "version_major": 2, "version_minor": 0}  
{"model_id": "7601800e5b7b4c9b9f94c6eb41545aa7", "version_major": 2, "version_minor": 0}  
{"model_id": "ade15fccd188478ea3b57a914d860229", "version_major": 2, "version_minor": 0}  
{"model_id": "2547d70a5a0f420bb6fbe3447484493e", "version_major": 2, "version_minor": 0}  
{"model_id": "129b49cdc11f44bd96f408c35f996082", "version_major": 2, "version_minor": 0}  
{"model_id": "719278efa85f4926a7676a725082fcff", "version_major": 2, "version_minor": 0}  
{"model_id": "2ce0272dc5774ec59f644ecf8a363371", "version_major": 2, "version_minor": 0}  
{"model_id": "5a4feff9d9454b31b5814d08e150e422", "version_major": 2, "version_minor": 0}  
{"model_id": "bbf0dd700fb94c82a50de6a1278e3ba5", "version_major": 2, "version_minor": 0}  
{"model_id": "ee2ddc9bbb6a469caa83af1f4805f932", "version_major": 2, "version_minor": 0}
```

```
100%|██████████| 42/42 [54:40<00:00, 78.12s/it]
```

□ Synthetic cat species dataset generated successfully!

```
from google.colab import drive  
drive.mount('/content/drive')  
  
Mounted at /content/drive  
  
import os  
  
drive_base_path = "/content/drive/MyDrive/CSET419"  
dataset_dir = os.path.join(drive_base_path, "synthetic_cat_dataset")  
os.makedirs(dataset_dir, exist_ok=True)  
  
print("Dataset will be saved at:", dataset_dir)
```

```
Dataset will be saved at:  
/content/drive/MyDrive/CSET419/synthetic_cat_dataset  
  
import shutil  
import os  
  
source = "/content/synthetic_cat_dataset"  
destination = "/content/drive/MyDrive/CSET419/synthetic_cat_dataset"  
  
for species in os.listdir(source):  
    src_species = os.path.join(source, species)  
    dst_species = os.path.join(destination, species)  
  
    if not os.path.exists(dst_species):  
        shutil.copytree(src_species, dst_species)  
    else:  
        print(f"⚠ {species} already exists, skipping...")
```

predicting the image

```
dataset_path = "/content/drive/MyDrive/CSET419/synthetic_cat_dataset"  
  
import torch  
import torch.nn as nn  
from torchvision import datasets, transforms, models  
from torch.utils.data import DataLoader  
from PIL import Image  
import os  
  
transform = transforms.Compose([  
    transforms.Resize((224, 224)),  
    transforms.ToTensor(),  
    transforms.Normalize(  
        mean=[0.485, 0.456, 0.406],  
        std=[0.229, 0.224, 0.225]  
    )  
])  
  
dataset_path = "/content/drive/MyDrive/CSET419/synthetic_cat_dataset"  
  
dataset = datasets.ImageFolder(  
    root=dataset_path,  
    transform=transform  
)  
  
loader = DataLoader(  
    dataset,  
    batch_size=16,  
    shuffle=True  
)
```

```
class_names = dataset.classes
num_classes = len(class_names)

print("Total classes:", num_classes)
Total classes: 42

model = models.efficientnet_b0(pretrained=True)

# Freeze pretrained layers
for param in model.parameters():
    param.requires_grad = False

# Replace classifier
model.classifier[1] = nn.Linear(
    model.classifier[1].in_features,
    num_classes
)

model = model.to("cuda")

/usr/local/lib/python3.12/dist-packages/torchvision/models/_utils.py:208: UserWarning: The parameter 'pretrained' is deprecated since 0.13 and may be removed in the future, please use 'weights' instead.
    warnings.warn(
/usr/local/lib/python3.12/dist-packages/torchvision/models/_utils.py:23: UserWarning: Arguments other than a weight enum or `None` for 'weights' are deprecated since 0.13 and may be removed in the future.
The current behavior is equivalent to passing
`weights=EfficientNet_B0_Weights.IMAGENET1K_V1`. You can also use
`weights=EfficientNet_B0_Weights.DEFAULT` to get the most up-to-date
weights.
    warnings.warn(msg)

Downloading:
"https://download.pytorch.org/models/efficientnet_b0_rwightman-7f5810bc.pth" to
/root/.cache/torch/hub/checkpoints/efficientnet_b0_rwightman-7f5810bc.pth
100%|██████████| 20.5M/20.5M [00:00<00:00, 86.3MB/s]

criterion = nn.CrossEntropyLoss()
optimizer = torch.optim.Adam(model.classifier.parameters(), lr=0.001)

epochs = 5

for epoch in range(epochs):
    model.train()
```

```

total_loss = 0

for images, labels in loader:
    images, labels = images.to("cuda"), labels.to("cuda")

    optimizer.zero_grad()
    outputs = model(images)
    loss = criterion(outputs, labels)
    loss.backward()
    optimizer.step()

    total_loss += loss.item()

print(f"Epoch {epoch+1}/{epochs} | Loss: {total_loss:.4f}")

Epoch 1/5 | Loss: 77.4354
Epoch 2/5 | Loss: 59.3445
Epoch 3/5 | Loss: 47.1370
Epoch 4/5 | Loss: 36.8204
Epoch 5/5 | Loss: 30.9338

def classify_image(image_path):
    model.eval()

    image = Image.open(image_path).convert("RGB")
    image = transform(image).unsqueeze(0).to("cuda")

    with torch.no_grad():
        output = model(image)
        _, pred = torch.max(output, 1)

    return class_names[pred.item()]

model.eval()

correct = 0
total = 0

with torch.no_grad():
    for images, labels in loader:
        images, labels = images.to("cuda"), labels.to("cuda")

        outputs = model(images)
        _, predicted = torch.max(outputs, 1)

        total += labels.size(0)
        correct += (predicted == labels).sum().item()

accuracy = (correct / total) * 100
print(f"Model Accuracy: {accuracy:.2f}%")

```

□ Model Accuracy: 97.14%

```
from PIL import Image
import torch

def predict_image(image_path):
    model.eval()

    image = Image.open(image_path).convert("RGB")
    image = transform(image).unsqueeze(0)

    device = torch.device("cuda" if torch.cuda.is_available() else
"cpu")
    image = image.to(device)

    with torch.no_grad():
        outputs = model(image)
        _, predicted = torch.max(outputs, 1)

    predicted_class = class_names[predicted.item()]
    return predicted_class

test_image_path =
"/content/drive/MyDrive/CSET419/synthetic_cat_dataset/British_Shorthair_cat/img_1.png"

prediction = predict_image(test_image_path)
print("😺 Predicted Cat Species:", prediction)

😺 Predicted Cat Species: British_Shorthair_cat

from google.colab import files
uploaded = files.upload()

<IPython.core.display.HTML object>

Saving American-Curls.jpg to American-Curls.jpg

external_image = list(uploaded.keys())[0]
print("Predicted Species:", predict_image(external_image))

Predicted Species: Burmilla_cat

model_save_path = "/content/cat_species_classifier.pth"

torch.save(model.state_dict(), model_save_path)

print("□ Model saved at:", model_save_path)

□ Model saved at: /content/cat_species_classifier.pth
```

```
from google.colab import files
files.download(model_save_path)

<IPython.core.display.Javascript object>
<IPython.core.display.Javascript object>
```

model saved and loading the model and testing

```
uploaded = files.upload()

<IPython.core.display.HTML object>

Saving American-Curls.jpg to American-Curls (1).jpg

import torch
import torch.nn as nn
from torchvision import models, transforms
from PIL import Image

# -----
# DEVICE
# -----
device = torch.device("cuda" if torch.cuda.is_available() else "cpu")

# -----
# CLASS NAMES (MUST MATCH TRAINING ORDER)
# -----
class_names = [
    "Abyssinian_cat", "American_Bobtail_cat", "American_Curl_cat",
    "American_Shorthair_cat", "American_Wirehair_cat", "Balinese_cat",
    "Bengal_cat", "Birman_cat", "Bombay_cat", "British_Shorthair_cat",
    "Burmese_cat", "Burmilla_cat", "Chartreux_cat", "Cornish_Rex_cat",
    "Devon_Rex_cat", "Egyptian_Mau_cat", "European_Shorthair_cat",
    "Exotic_Shorthair_cat", "Havana_Brown_cat", "Himalayan_cat",
    "Japanese_Bobtail_cat", "Korat_cat", "LaPerm_cat",
    "Maine_Coon_cat",
    "Manx_cat", "Norwegian_Forest_cat", "Ocicat",
    "Oriental_Shorthair_cat", "Persian_cat", "Ragdoll_cat",
    "Russian_Blue_cat", "Savannah_cat", "Scottish_Fold_cat",
    "Selkirk_Rex_cat", "Siamese_cat", "Siberian_cat",
    "Singapura_cat", "Somali_cat", "Sphynx_cat",
    "Tonkinese_cat", "Turkish_Angora_cat", "Turkish_Van_cat"
]
NUM_CLASSES = len(class_names)

# -----
# TRANSFORM (SAME AS TRAINING)
# -----
```

```
transform = transforms.Compose([
    transforms.Resize((224, 224)),
    transforms.ToTensor(),
    transforms.Normalize(
        mean=[0.485, 0.456, 0.406],
        std=[0.229, 0.224, 0.225]
    )
])

# -----
# LOAD MODEL
# -----
model = models.efficientnet_b0(pretrained=False)
model.classifier[1] = nn.Linear(
    model.classifier[1].in_features,
    NUM_CLASSES
)

model.load_state_dict(torch.load("cat_species_classifier.pth",
map_location=device))
model = model.to(device)
model.eval()

# -----
# PREDICTION FUNCTION
# -----
def predict_image(image_path):
    image = Image.open(image_path).convert("RGB")
    image = transform(image).unsqueeze(0).to(device)

    with torch.no_grad():
        outputs = model(image)
        _, predicted = torch.max(outputs, 1)

    return class_names[predicted.item()]

# -----
# TEST IMAGE
# -----
test_image_path = "/content/American-Curls.jpg"

prediction = predict_image(test_image_path)
print("😺 Predicted Cat Species:", prediction)

😺 Predicted Cat Species: Burmilla_cat

import matplotlib.pyplot as plt

img = Image.open("/content/American-Curls.jpg")
plt.imshow(img)
```

```
plt.axis("off")
plt.title(f"Predicted: {prediction}")
plt.show()
```

Predicted: Burmilla_cat

