

ityai-stable-diffusion-xl-base-1-0

April 17, 2025

```
[1]: pip install diffusers --upgrade
```

```
Requirement already satisfied: diffusers in /usr/local/lib/python3.11/dist-packages (0.32.2)
Collecting diffusers
  Downloading diffusers-0.33.1-py3-none-any.whl.metadata (19 kB)
Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.11/dist-packages (from diffusers) (8.6.1)
Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from diffusers) (3.18.0)
Requirement already satisfied: huggingface-hub>=0.27.0 in /usr/local/lib/python3.11/dist-packages (from diffusers) (0.30.2)
Requirement already satisfied: numpy in /usr/local/lib/python3.11/dist-packages (from diffusers) (2.0.2)
Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.11/dist-packages (from diffusers) (2024.11.6)
Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from diffusers) (2.32.3)
Requirement already satisfied: safetensors>=0.3.1 in /usr/local/lib/python3.11/dist-packages (from diffusers) (0.5.3)
Requirement already satisfied: Pillow in /usr/local/lib/python3.11/dist-packages (from diffusers) (11.1.0)
Requirement already satisfied: fsspec>=2023.5.0 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers) (2025.3.2)
Requirement already satisfied: packaging>=20.9 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers) (24.2)
Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers) (6.0.2)
Requirement already satisfied: tqdm>=4.42.1 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers) (4.67.1)
Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers) (4.13.1)
Requirement already satisfied: zipp>=3.20 in /usr/local/lib/python3.11/dist-packages (from importlib-metadata->diffusers) (3.21.0)
Requirement already satisfied: charset-normalizer<4,>=2 in
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/usr/local/lib/python3.11/dist-packages (from requests->diffusers) (3.4.1)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.11/dist-
packages (from requests->diffusers) (3.10)
Requirement already satisfied: urllib3<3,>=1.21.1 in
/usr/local/lib/python3.11/dist-packages (from requests->diffusers) (2.3.0)
Requirement already satisfied: certifi>=2017.4.17 in
/usr/local/lib/python3.11/dist-packages (from requests->diffusers) (2025.1.31)
Downloading diffusers-0.33.1-py3-none-any.whl (3.6 MB)
3.6/3.6 MB
```

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69.9 MB/s eta 0:00:00
```

```
Installing collected packages: diffusers
  Attempting uninstall: diffusers
    Found existing installation: diffusers 0.32.2
    Uninstalling diffusers-0.32.2:
      Successfully uninstalled diffusers-0.32.2
Successfully installed diffusers-0.33.1
```

```
[2]: pip install invisible_watermark transformers accelerate safetensors
```

```
Collecting invisible_watermark
  Downloading invisible_watermark-0.2.0-py3-none-any.whl.metadata (8.2 kB)
Requirement already satisfied: transformers in /usr/local/lib/python3.11/dist-
packages (4.51.1)
Requirement already satisfied: accelerate in /usr/local/lib/python3.11/dist-
packages (1.5.2)
Requirement already satisfied: safetensors in /usr/local/lib/python3.11/dist-
packages (0.5.3)
Requirement already satisfied: Pillow>=6.0.0 in /usr/local/lib/python3.11/dist-
packages (from invisible_watermark) (11.1.0)
Collecting PyWavelets>=1.1.1 (from invisible_watermark)
  Downloading pywavelets-1.8.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x
86_64.whl.metadata (9.0 kB)
Requirement already satisfied: numpy>=1.17.0 in /usr/local/lib/python3.11/dist-
packages (from invisible_watermark) (2.0.2)
Requirement already satisfied: opencv-python>=4.1.0.25 in
/usr/local/lib/python3.11/dist-packages (from invisible_watermark) (4.11.0.86)
Requirement already satisfied: torch in /usr/local/lib/python3.11/dist-packages
(from invisible_watermark) (2.6.0+cu124)
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) (0.30.2)
Requirement already satisfied: packaging>=20.0 in
/usr/local/lib/python3.11/dist-packages (from transformers) (24.2)
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)
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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) (0.21.1)

Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.11/dist-packages (from transformers) (4.67.1)

Requirement already satisfied: psutil in /usr/local/lib/python3.11/dist-packages (from accelerate) (5.9.5)

Requirement already satisfied: fsspec>=2023.5.0 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub<1.0,>=0.30.0->transformers) (2025.3.2)

Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub<1.0,>=0.30.0->transformers) (4.13.1)

Requirement already satisfied: networkx in /usr/local/lib/python3.11/dist-packages (from torch->invisible_watermark) (3.4.2)

Requirement already satisfied: Jinja2 in /usr/local/lib/python3.11/dist-packages (from torch->invisible_watermark) (3.1.6)

Collecting nvidia-cuda-nvrtc-cu12==12.4.127 (from torch->invisible_watermark)

 Downloading nvidia_cuda_nvrtc_cu12-12.4.127-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)

Collecting nvidia-cuda-runtime-cu12==12.4.127 (from torch->invisible_watermark)

 Downloading nvidia_cuda_runtime_cu12-12.4.127-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)

Collecting nvidia-cuda-cupti-cu12==12.4.127 (from torch->invisible_watermark)

 Downloading nvidia_cuda_cupti_cu12-12.4.127-py3-none-manylinux2014_x86_64.whl.metadata (1.6 kB)

Collecting nvidia-cudnn-cu12==9.1.0.70 (from torch->invisible_watermark)

 Downloading nvidia_cudnn_cu12-9.1.0.70-py3-none-manylinux2014_x86_64.whl.metadata (1.6 kB)

Collecting nvidia-cublas-cu12==12.4.5.8 (from torch->invisible_watermark)

 Downloading nvidia_cublas_cu12-12.4.5.8-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)

Collecting nvidia-cufft-cu12==11.2.1.3 (from torch->invisible_watermark)

 Downloading nvidia_cufft_cu12-11.2.1.3-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)

Collecting nvidia-curand-cu12==10.3.5.147 (from torch->invisible_watermark)

 Downloading nvidia_curand_cu12-10.3.5.147-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)

Collecting nvidia-cusolver-cu12==11.6.1.9 (from torch->invisible_watermark)

 Downloading nvidia_cusolver_cu12-11.6.1.9-py3-none-manylinux2014_x86_64.whl.metadata (1.6 kB)

Collecting nvidia-cusparselt-cu12==0.6.2 in /usr/local/lib/python3.11/dist-packages (from torch->invisible_watermark) (0.6.2)

Requirement already satisfied: nvidia-nccl-cu12==2.21.5 in
 /usr/local/lib/python3.11/dist-packages (from torch->invisible_watermark)
 (2.21.5)

Requirement already satisfied: nvidia-nvtx-cu12==12.4.127 in
 /usr/local/lib/python3.11/dist-packages (from torch->invisible_watermark)
 (12.4.127)

Collecting nvidia-nvjitlink-cu12==12.4.127 (from torch->invisible_watermark)
 Downloading nvidia_nvjitlink_cu12-12.4.127-py3-none-
 manylinux2014_x86_64.whl.metadata (1.5 kB)

Requirement already satisfied: triton==3.2.0 in /usr/local/lib/python3.11/dist-
 packages (from torch->invisible_watermark) (3.2.0)

Requirement already satisfied: sympy==1.13.1 in /usr/local/lib/python3.11/dist-
 packages (from torch->invisible_watermark) (1.13.1)

Requirement already satisfied: mpmath<1.4,>=1.1.0 in
 /usr/local/lib/python3.11/dist-packages (from
 sympy==1.13.1->torch->invisible_watermark) (1.3.0)

Requirement already satisfied: charset-normalizer<4,>=2 in
 /usr/local/lib/python3.11/dist-packages (from requests->transformers) (3.4.1)

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) (2.3.0)

Requirement already satisfied: certifi>=2017.4.17 in
 /usr/local/lib/python3.11/dist-packages (from requests->transformers)
 (2025.1.31)

Requirement already satisfied: MarkupSafe>=2.0 in
 /usr/local/lib/python3.11/dist-packages (from
 jinja2->torch->invisible_watermark) (3.0.2)

Downloading invisible_watermark-0.2.0-py3-none-any.whl (1.6 MB)
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 56.4 MB/s eta 0:00:00

Downloading
 pywavelets-1.8.0-cp311-cp311-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (4.5
 MB)
 4.5/4.5 MB
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Downloading nvidia_cublas_cu12-12.4.5.8-py3-none-manylinux2014_x86_64.whl
 (363.4 MB)
 363.4/363.4 MB
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Downloading nvidia_cuda_cupti_cu12-12.4.127-py3-none-
 manylinux2014_x86_64.whl (13.8 MB)
 13.8/13.8 MB
 101.0 MB/s eta 0:00:00

Downloading nvidia_cuda_nvrtc_cu12-12.4.127-py3-none-
 manylinux2014_x86_64.whl (24.6 MB)
 24.6/24.6 MB
 77.5 MB/s eta 0:00:00

Downloading nvidia_cuda_runtime_cu12-12.4.127-py3-none-manylinux2014_x86_64.whl (883 kB)

883.7/883.7 kB

56.3 MB/s eta 0:00:00

Downloading nvidia_cudnn_cu12-9.1.0.70-py3-none-manylinux2014_x86_64.whl (664.8 MB)

664.8/664.8 MB

1.1 MB/s eta 0:00:00

Downloading nvidia_cufft_cu12-11.2.1.3-py3-none-manylinux2014_x86_64.whl (211.5 MB)

211.5/211.5 MB

4.9 MB/s eta 0:00:00

Downloading nvidia_curand_cu12-10.3.5.147-py3-none-manylinux2014_x86_64.whl (56.3 MB)

56.3/56.3 MB

12.4 MB/s eta 0:00:00

Downloading nvidia_cusolver_cu12-11.6.1.9-py3-none-manylinux2014_x86_64.whl (127.9 MB)

127.9/127.9 MB

7.3 MB/s eta 0:00:00

Downloading nvidia_cusparses_cu12-12.3.1.170-py3-none-manylinux2014_x86_64.whl (207.5 MB)

207.5/207.5 MB

5.7 MB/s eta 0:00:00

Downloading nvidia_nvjitlink_cu12-12.4.127-py3-none-manylinux2014_x86_64.whl (21.1 MB)

21.1/21.1 MB

81.0 MB/s eta 0:00:00

Installing collected packages: PyWavelets, nvidia-nvjitlink-cu12, nvidia-curand-cu12, nvidia-cufft-cu12, nvidia-cuda-runtime-cu12, nvidia-cuda-nvrtc-cu12, nvidia-cuda-cupti-cu12, nvidia-cublas-cu12, nvidia-cusparses-cu12, nvidia-cudnn-cu12, nvidia-cusolver-cu12, invisible_watermark

Attempting uninstall: nvidia-nvjitlink-cu12

Found existing installation: nvidia-nvjitlink-cu12 12.5.82

Uninstalling nvidia-nvjitlink-cu12-12.5.82:

Successfully uninstalled nvidia-nvjitlink-cu12-12.5.82

Attempting uninstall: nvidia-curand-cu12

Found existing installation: nvidia-curand-cu12 10.3.6.82

Uninstalling nvidia-curand-cu12-10.3.6.82:

Successfully uninstalled nvidia-curand-cu12-10.3.6.82

Attempting uninstall: nvidia-cufft-cu12

Found existing installation: nvidia-cufft-cu12 11.2.3.61

Uninstalling nvidia-cufft-cu12-11.2.3.61:

Successfully uninstalled nvidia-cufft-cu12-11.2.3.61

Attempting uninstall: nvidia-cuda-runtime-cu12

Found existing installation: nvidia-cuda-runtime-cu12 12.5.82

Uninstalling nvidia-cuda-runtime-cu12-12.5.82:

Successfully uninstalled nvidia-cuda-runtime-cu12-12.5.82

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Attempting uninstall: nvidia-cuda-nvrtc-cu12
Found existing installation: nvidia-cuda-nvrtc-cu12 12.5.82
Uninstalling nvidia-cuda-nvrtc-cu12-12.5.82:
  Successfully uninstalled nvidia-cuda-nvrtc-cu12-12.5.82
Attempting uninstall: nvidia-cuda-cupti-cu12
Found existing installation: nvidia-cuda-cupti-cu12 12.5.82
Uninstalling nvidia-cuda-cupti-cu12-12.5.82:
  Successfully uninstalled nvidia-cuda-cupti-cu12-12.5.82
Attempting uninstall: nvidia-cublas-cu12
Found existing installation: nvidia-cublas-cu12 12.5.3.2
Uninstalling nvidia-cublas-cu12-12.5.3.2:
  Successfully uninstalled nvidia-cublas-cu12-12.5.3.2
Attempting uninstall: nvidia-cusparse-cu12
Found existing installation: nvidia-cusparse-cu12 12.5.1.3
Uninstalling nvidia-cusparse-cu12-12.5.1.3:
  Successfully uninstalled nvidia-cusparse-cu12-12.5.1.3
Attempting uninstall: nvidia-cudnn-cu12
Found existing installation: nvidia-cudnn-cu12 9.3.0.75
Uninstalling nvidia-cudnn-cu12-9.3.0.75:
  Successfully uninstalled nvidia-cudnn-cu12-9.3.0.75
Attempting uninstall: nvidia-cusolver-cu12
Found existing installation: nvidia-cusolver-cu12 11.6.3.83
Uninstalling nvidia-cusolver-cu12-11.6.3.83:
  Successfully uninstalled nvidia-cusolver-cu12-11.6.3.83
Successfully installed PyWavelets-1.8.0 invisible_watermark-0.2.0 nvidia-cublas-
cu12-12.4.5.8 nvidia-cuda-cupti-cu12-12.4.127 nvidia-cuda-nvrtc-cu12-12.4.127
nvidia-cuda-runtime-cu12-12.4.127 nvidia-cudnn-cu12-9.1.0.70 nvidia-cufft-
cu12-11.2.1.3 nvidia-curand-cu12-10.3.5.147 nvidia-cusolver-cu12-11.6.1.9
nvidia-cusparse-cu12-12.3.1.170 nvidia-nvjitlink-cu12-12.4.127

```

```

[14]: from diffusers import DiffusionPipeline
import torch

pipe = DiffusionPipeline.from_pretrained("stabilityai/
↳stable-diffusion-xl-base-1.0", torch_dtype=torch.float16,
↳use_safetensors=True, variant="fp16")
pipe.to("cuda")

# if using torch < 2.0
# pipe.enable_xformers_memory_efficient_attention()

prompt = "A cute Baby playing with her quite siberain husky and golden
↳retriever dogs on the garden with background full of greenary"
images = pipe(prompt=prompt).images[0]

```

```

Loading pipeline components...: 0%|          | 0/7 [00:00<?, ?it/s]
0%|          | 0/50 [00:00<?, ?it/s]

```



```
[15]: images
```

```
[15]:
```



```
[16]: pip install gradio
```

```
Collecting gradio
  Downloading gradio-5.25.2-py3-none-any.whl.metadata (16 kB)
Collecting aiofiles<25.0,>=22.0 (from gradio)
  Downloading aiofiles-24.1.0-py3-none-any.whl.metadata (10 kB)
Requirement already satisfied: anyio<5.0,>=3.0 in
/usr/local/lib/python3.11/dist-packages (from gradio) (4.9.0)
Collecting fastapi<1.0,>=0.115.2 (from gradio)
  Downloading fastapi-0.115.12-py3-none-any.whl.metadata (27 kB)
Collecting ffmpy (from gradio)
```

Downloading ffmpeg-0.5.0-py3-none-any.whl.metadata (3.0 kB)
 Collecting gradio-client==1.8.0 (from gradio)
 Downloading gradio_client-1.8.0-py3-none-any.whl.metadata (7.1 kB)
 Collecting groovy~=0.1 (from gradio)
 Downloading groovy-0.1.2-py3-none-any.whl.metadata (6.1 kB)
 Requirement already satisfied: httpx>=0.24.1 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.28.1)
 Requirement already satisfied: huggingface-hub>=0.28.1 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.30.2)
 Requirement already satisfied: jinja2<4.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (3.1.6)
 Requirement already satisfied: markupsafe<4.0,>=2.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (3.0.2)
 Requirement already satisfied: numpy<3.0,>=1.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (2.0.2)
 Requirement already satisfied: orjson~=3.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (3.10.16)
 Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-packages (from gradio) (24.2)
 Requirement already satisfied: pandas<3.0,>=1.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (2.2.2)
 Requirement already satisfied: pillow<12.0,>=8.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (11.1.0)
 Requirement already satisfied: pydantic<2.12,>=2.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (2.11.3)
 Collecting pydub (from gradio)
 Downloading pydub-0.25.1-py2.py3-none-any.whl.metadata (1.4 kB)
 Collecting python-multipart>=0.0.18 (from gradio)
 Downloading python_multipart-0.0.20-py3-none-any.whl.metadata (1.8 kB)
 Requirement already satisfied: pyyaml<7.0,>=5.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (6.0.2)
 Collecting ruff>=0.9.3 (from gradio)
 Downloading ruff-0.11.6-py3-none-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (25 kB)
 Collecting safehttpx<0.2.0,>=0.1.6 (from gradio)
 Downloading safehttpx-0.1.6-py3-none-any.whl.metadata (4.2 kB)
 Collecting semantic-version~=2.0 (from gradio)
 Downloading semantic_version-2.10.0-py2.py3-none-any.whl.metadata (9.7 kB)
 Collecting starlette<1.0,>=0.40.0 (from gradio)
 Downloading starlette-0.46.2-py3-none-any.whl.metadata (6.2 kB)
 Collecting tomlkit<0.14.0,>=0.12.0 (from gradio)
 Downloading tomlkit-0.13.2-py3-none-any.whl.metadata (2.7 kB)
 Requirement already satisfied: typer<1.0,>=0.12 in /usr/local/lib/python3.11/dist-packages (from gradio) (0.15.2)
 Requirement already satisfied: typing-extensions~=4.0 in /usr/local/lib/python3.11/dist-packages (from gradio) (4.13.1)
 Collecting uvicorn>=0.14.0 (from gradio)
 Downloading uvicorn-0.34.1-py3-none-any.whl.metadata (6.5 kB)

Requirement already satisfied: fsspec in /usr/local/lib/python3.11/dist-packages (from gradio-client==1.8.0->gradio) (2025.3.2)

Requirement already satisfied: websockets<16.0,>=10.0 in /usr/local/lib/python3.11/dist-packages (from gradio-client==1.8.0->gradio) (15.0.1)

Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.11/dist-packages (from anyio<5.0,>=3.0->gradio) (3.10)

Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.11/dist-packages (from anyio<5.0,>=3.0->gradio) (1.3.1)

Requirement already satisfied: certifi in /usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1->gradio) (2025.1.31)

Requirement already satisfied: httpcore==1.* in /usr/local/lib/python3.11/dist-packages (from httpx>=0.24.1->gradio) (1.0.7)

Requirement already satisfied: h11<0.15,>=0.13 in /usr/local/lib/python3.11/dist-packages (from httpcore==1.*->httpx>=0.24.1->gradio) (0.14.0)

Requirement already satisfied: filelock in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1->gradio) (3.18.0)

Requirement already satisfied: requests in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1->gradio) (2.32.3)

Requirement already satisfied: tqdm>=4.42.1 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.28.1->gradio) (4.67.1)

Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.0->gradio) (2.8.2)

Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.0->gradio) (2025.2)

Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.11/dist-packages (from pandas<3.0,>=1.0->gradio) (2025.2)

Requirement already satisfied: annotated-types>=0.6.0 in /usr/local/lib/python3.11/dist-packages (from pydantic<2.12,>=2.0->gradio) (0.7.0)

Requirement already satisfied: pydantic-core==2.33.1 in /usr/local/lib/python3.11/dist-packages (from pydantic<2.12,>=2.0->gradio) (2.33.1)

Requirement already satisfied: typing-inspection>=0.4.0 in /usr/local/lib/python3.11/dist-packages (from pydantic<2.12,>=2.0->gradio) (0.4.0)

Requirement already satisfied: click>=8.0.0 in /usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12->gradio) (8.1.8)

Requirement already satisfied: shellingham>=1.3.0 in /usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12->gradio) (1.5.4)

Requirement already satisfied: rich>=10.11.0 in /usr/local/lib/python3.11/dist-packages (from typer<1.0,>=0.12->gradio) (13.9.4)

Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.11/dist-packages (from python-dateutil>=2.8.2->pandas<3.0,>=1.0->gradio) (1.17.0)

Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.11/dist-packages (from rich>=10.11.0->typer<1.0,>=0.12->gradio) (3.0.0)

Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python3.11/dist-packages (from rich>=10.11.0->typer<1.0,>=0.12->gradio) (2.18.0)

Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.11/dist-packages (from requests->huggingface-hub>=0.28.1->gradio) (3.4.1)

Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.11/dist-packages (from requests->huggingface-hub>=0.28.1->gradio) (2.3.0)

Requirement already satisfied: mdurl~=0.1 in /usr/local/lib/python3.11/dist-packages (from markdown-it-py>=2.2.0->rich>=10.11.0->typer<1.0,>=0.12->gradio) (0.1.2)

Downloading gradio-5.25.2-py3-none-any.whl (46.9 MB)
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14.2 MB/s eta 0:00:00

Downloading gradio_client-1.8.0-py3-none-any.whl (322 kB)
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Downloading aiofiles-24.1.0-py3-none-any.whl (15 kB)

Downloading fastapi-0.115.12-py3-none-any.whl (95 kB)
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Downloading groovy-0.1.2-py3-none-any.whl (14 kB)

Downloading python_multipart-0.0.20-py3-none-any.whl (24 kB)

Downloading ruff-0.11.6-py3-none-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.5 MB)
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Downloading safehttpx-0.1.6-py3-none-any.whl (8.7 kB)

Downloading semantic_version-2.10.0-py2.py3-none-any.whl (15 kB)

Downloading starlette-0.46.2-py3-none-any.whl (72 kB)
72.0/72.0 kB

7.6 MB/s eta 0:00:00

Downloading tomlkit-0.13.2-py3-none-any.whl (37 kB)

Downloading uvicorn-0.34.1-py3-none-any.whl (62 kB)
62.4/62.4 kB

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Downloading ffmpeg-0.5.0-py3-none-any.whl (6.0 kB)

Downloading pydub-0.25.1-py2.py3-none-any.whl (32 kB)

Installing collected packages: pydub, uvicorn, tomlkit, semantic-version, ruff, python-multipart, groovy, ffmpeg, aiofiles, starlette, safehttpx, gradio-client, fastapi, gradio

Successfully installed aiofiles-24.1.0 fastapi-0.115.12 ffmpeg-0.5.0 gradio-5.25.2 gradio-client-1.8.0 groovy-0.1.2 pydub-0.25.1 python-multipart-0.0.20 ruff-0.11.6 safehttpx-0.1.6 semantic-version-2.10.0 starlette-0.46.2 tomlkit-0.13.2 uvicorn-0.34.1

```
[20]: import gradio as gr
from diffusers import StableDiffusionPipeline, EulerDiscreteScheduler
import torch

model_id = "stabilityai/stable-diffusion-2-1-base"

scheduler = EulerDiscreteScheduler.from_pretrained(model_id,
↳subfolder="scheduler")
pipe = StableDiffusionPipeline.from_pretrained(model_id, scheduler=scheduler,
↳torch_dtype=torch.float16)
pipe = pipe.to("cuda")

def generated_image(prompt):
    image = pipe(prompt).images[0]
    return image

gr.Interface(
    fn=generated_image,
    inputs=gr.Textbox(label="Enter your prompt"),
    outputs=gr.Image(type="pil"),
    title="Stable Diffusion 2.1 - AVULAMANDA SAI VAMSHI IMAGE GENERATOR APP",
    description="Enter text prompt and see the generated image"
).launch()
```

Loading pipeline components...: 0% | 0/6 [00:00<?, ?it/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 setting `share=True` (you can turn this off by setting `share=False` in `launch()` explicitly).

Colab notebook detected. To show errors in colab notebook, set debug=True in launch()

* Running on public URL: <https://4bce6db68876938239.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 directory to deploy to Hugging Face Spaces (<https://huggingface.co/spaces>)

<IPython.core.display.HTML object>

[20]:

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