Q

Close

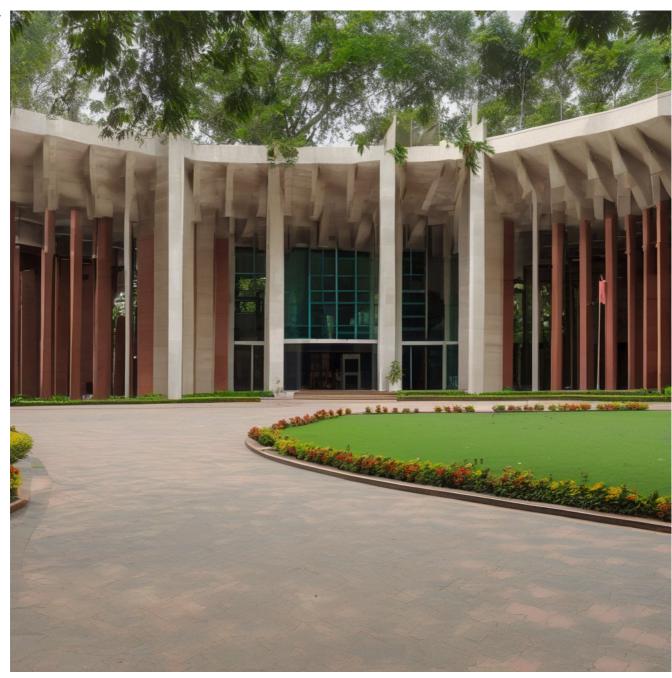
pip install diffusers --upgrade

```
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
    Requirement already satisfied: packaging>=20.9 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers)
    Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers) (6.6
    Requirement already satisfied: tqdm>=4.42.1 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0->diffusers) (4
    Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.11/dist-packages (from huggingface-hub>=0.27.0-)
    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 /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 84.9 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
```

pip install invisible_watermark transformers accelerate safetensors



```
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 nvi
from diffusers import DiffusionPipeline
import torch
pipe.to("cuda")
# if using torch < 2.0
# pipe.enable_xformers_memory_efficient_attention()
prompt = "iim front banglore image"
images = pipe(prompt=prompt).images[0]
Loading pipeline components...: 100%
                                                                   7/7 [00:04<00:00, 1.24it/s]
    100%
                                            50/50 [00:46<00:00, 1.10it/s]
images
```



 $! \verb|pip| install gradio diffusers transformers accelerate\\$

```
→ Collecting gradio
      Downloading gradio-5.25.2-py3-none-any.whl.metadata (16 kB)
    Requirement already satisfied: diffusers in /usr/local/lib/python3.11/dist-packages (0.33.1)
    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)
    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 ffmpy-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-0.11.5-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->grad
     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: 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: 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: torch>=2.0.0 in /usr/local/lib/python3.11/dist-packages (from accelerate) (2.6.0+cu124)
     Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.11/dist-packages (from anyio<5.0,>=3.0->gradio) (3.10)
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 - Vanshika Jaiswal IMAGE GENERATOR APP",
    description="A lone fierce warrior fighting against thousand enemies"
).launch()
```

→

special_tokens_map.json: 100%

scheduler_config.json: 100% 346/346 [00:00<00:00, 20.8kB/s]

model_index.json: 100% 543/543 [00:00<00:00, 35.2kB/s]

Fetching 12 files: 100% 12/12 [00:38<00:00, 3.69s/it]

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

460/460 [00:00<00:00, 10.8kB/s]

merges.txt: 100% 525k/525k [00:00<00:00, 1.18MB/s]

config.json: 100% 613/613 [00:00<00:00, 12.0kB/s]

vocab.json: 100% 1.06M/1.06M [00:00<00:00, 13.7MB/s]