

```
!pip install diffusers transformers accelerate --upgrade
!pip install safetensors
```

```

↳ Downloading nvidia_cufft_cu12-11.2.1.3-py3-none-manylinux2014_x86_64.whl (211.5 MB)
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Downloading nvidia_curand_cu12-10.3.5.147-py3-none-manylinux2014_x86_64.whl (56.3 MB)
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Downloading nvidia_cusparses_cu12-12.3.1.170-py3-none-manylinux2014_x86_64.whl (207.5 MB)
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Downloading nvidia_nvjitlink_cu12-12.4.127-py3-none-manylinux2014_x86_64.whl (21.1 MB)
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Installing collected packages: nvidia-nvjitlink-cu12, nvidia-curand-cu12, nvidia-cufft-cu12, nvidia-cuda-runtime-cu12, nvidia-cuda
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
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-cusparses-cu12
  Found existing installation: nvidia-cusparses-cu12 12.5.1.3
  Uninstalling nvidia-cusparses-cu12-12.5.1.3:
    Successfully uninstalled nvidia-cusparses-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
Attempting uninstall: transformers
  Found existing installation: transformers 4.53.1
  Uninstalling transformers-4.53.1:
    Successfully uninstalled transformers-4.53.1
Successfully installed nvidia-cublas-cu12-12.4.5.8 nvidia-cuda-cupti-cu12-12.4.127 nvidia-cuda-nvrtc-cu12-12.4.127 nvidia-cuda-run
Requirement already satisfied: safetensors in /usr/local/lib/python3.11/dist-packages (0.5.3)

```

```
import torch
from diffusers import StableDiffusionPipeline
import matplotlib.pyplot as plt
```

```
from huggingface_hub import login
login("hf_gMhDChZJTMxEmQULFFhnPfSjTLDcwoiNG")
```

```
pipe = StableDiffusionPipeline.from_pretrained(
    "runwayml/stable-diffusion-v1-5",
    torch_dtype=torch.float16,
    use_safetensors=True).to("cuda")
```

```

/usr/local/lib/python3.11/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 :
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(
model_index.json: 100% 541/541 [00:00<00:00, 55.8kB/s]
Fetching 15 files: 100% 15/15 [00:39<00:00, 3.01s/it]
model.safetensors: 100% 492M/492M [00:08<00:00, 68.2MB/s]
model.safetensors: 100% 1.22G/1.22G [00:15<00:00, 122MB/s]
config.json: 4.72k/? [00:00<00:00, 66.0kB/s]
special_tokens_map.json: 100% 472/472 [00:00<00:00, 5.43kB/s]
config.json: 100% 617/617 [00:00<00:00, 9.11kB/s]
merges.txt: 525k/? [00:00<00:00, 1.12MB/s]
preprocessor_config.json: 100% 342/342 [00:00<00:00, 5.22kB/s]
scheduler_config.json: 100% 308/308 [00:00<00:00, 2.99kB/s]
tokenizer_config.json: 100% 806/806 [00:00<00:00, 5.55kB/s]
diffusion_pytorch_model.safetensors: 100% 3.44G/3.44G [00:38<00:00, 152MB/s]
config.json: 100% 743/743 [00:00<00:00, 7.12kB/s]
vocab.json: 1.06M/? [00:00<00:00, 104kB/s]
diffusion_pytorch_model.safetensors: 100% 335M/335M [00:05<00:00, 60.2MB/s]
config.json: 100% 547/547 [00:00<00:00, 8.47kB/s]
Loading pipeline components...: 100% 7/7 [00:24<00:00, 4.42s/it]

```

```

user_prompt = input("Enter your image prompt: ")
image = pipe(user_prompt).images[0]
# Display the generated image
plt.imshow(image)
plt.axis('off')
plt.title('Generated Image by Nisha')
plt.show()

```

```

Enter your image prompt: cute girl
100% 50/50 [00:07<00:00, 7.05it/s]

```

Generated Image by Nisha



create interface streamlite

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