## text-to-image-conversion-project

## August 1, 2025

```
[6]: | pip install diffusers transformers accelerate --quiet
                               363.4/363.4 MB
     4.5 MB/s eta 0:00:00:00:0100:01
                               13.8/13.8 MB
     76.0 MB/s eta 0:00:00:00:010:01
                               24.6/24.6 MB
     59.1 MB/s eta 0:00:00:00:0100:01
                               883.7/883.7 kB
     49.6 MB/s eta 0:00:00
                               664.8/664.8 MB
     1.3 MB/s eta 0:00:00:00:0100:01
                               211.5/211.5 MB
     8.1 MB/s eta 0:00:00:00:0100:01
                               56.3/56.3 MB
     31.2 MB/s eta 0:00:00:00:0100:01
                               127.9/127.9 MB
     12.9 MB/s eta 0:00:0000:0100:01
                               207.5/207.5 MB
     8.2 MB/s eta 0:00:00:00:0100:01
                               21.1/21.1 MB
     71.9 MB/s eta 0:00:00:00:0100:01
[10]: import torch
      from diffusers import StableDiffusionPipeline
      from PIL import Image
      from IPython.display import display
[12]: pipe = StableDiffusionPipeline.from_pretrained(
          "runwayml/stable-diffusion-v1-5",
          torch_dtype=torch.float16
      ).to("cuda")
                         0%|
                                       | 0.00/541 [00:00<?, ?B/s]
     model_index.json:
     Fetching 15 files:
                           0%1
                                        | 0/15 [00:00<?, ?it/s]
                                               | 0.00/342 [00:00<?, ?B/s]
     preprocessor_config.json:
                                  0%1
```

```
special_tokens_map.json:
                                0%|
                                      | 0.00/472 [00:00<?, ?B/s]
     merges.txt: 0.00B [00:00, ?B/s]
     config.json:
                    0%|
                                | 0.00/617 [00:00<?, ?B/s]
     model.safetensors:
                         0%1
                                       | 0.00/1.22G [00:00<?, ?B/s]
                         0%|
     model.safetensors:
                                      | 0.00/492M [00:00<?, ?B/s]
     config.json: 0.00B [00:00, ?B/s]
     scheduler_config.json: 0%|
                                         | 0.00/308 [00:00<?, ?B/s]
     vocab.json: 0.00B [00:00, ?B/s]
     tokenizer_config.json:
                             0%|
                                         | 0.00/806 [00:00<?, ?B/s]
     config.json:
                    0%|
                                 | 0.00/743 [00:00<?, ?B/s]
                                                        | 0.00/3.44G [00:00<?, ?B/s]
     diffusion_pytorch_model.safetensors:
                                           0%1
                                 | 0.00/547 [00:00<?, ?B/s]
                    0%|
     config.json:
     diffusion_pytorch_model.safetensors:
                                           0%|
                                                        | 0.00/335M [00:00<?, ?B/s]
     Loading pipeline components ...:
                                    0%1
                                                 | 0/7 [00:00<?, ?it/s]
[20]: prompt = input("Enter your prompt for image generation:")
     with torch.inference mode():
          image = pipe(prompt).images[0]
         display(image)
```

Enter your prompt for image generation: A scenic view of the Milky Way galaxy from Earth, ultra realistic, 8k

0%| | 0/50 [00:00<?, ?it/s]

