

comic_image_2.png

comic_...

```
# !pip install diffusers
# !pip install accelerate
!pip install pillow
```

Requirement already satisfied: pillow in /usr/local/lib/python

```
!pip install python-dotenv google-generativeai
```

Collecting python-dotenv

```
Downloading python_dotenv-1.0.1-py3-none-any.whl (19 kB)
Requirement already satisfied: google-generativeai in /usr/loc
Requirement already satisfied: google-ai-generativelanguage>=0.5.0 in /usr/loc
Requirement already satisfied: google-api-core in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: google-api-python-client in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: google-auth>=2.15.0 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: protobuf in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: pydantic in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: tqdm in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: proto-plus<2.0.0dev,>=1.22.3 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: cachetools<6.0,>=2.0.0 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: pyasn1-modules>=0.2.1 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: rsa<5,>=3.1.4 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: googleapis-common-protos<2.0.0dev,>=1.6.0 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: requests<3.0.0.dev0,>=2.18.0 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: httplib2<1dev,>=0.15.0 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: google-auth-httplib2>=0.1.0 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: uritemplate<5,>=3.0.1 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: annotated-types>=0.4.0 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: pydantic-core==2.18.4 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: grpcio<2.0dev,>=1.33.2 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: grpcio-status<2.0.dev0,>=1.33.2 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: pyparsing!=3.0.0,!3.0.1,!3.0.2 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: pyasn1<0.7.0,>=0.4.6 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/site-packages
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/site-packages
Installing collected packages: python-dotenv
Successfully installed python-dotenv-1.0.1
```

```
from google.generativeai import genai
from diffusers import DiffusionPipeline
import time
import accelerate
```

```
Configure the Google Generative AI with your API key
pi_key = "AIzaSyDl2nIaYT9ef8vJ6NDhXnIOUj-Z_UmYfXU" # Replace with your API key
genai.configure(api_key=api_key)
```

```
Function to load the Gemini Pro model and get responses
model = genai.GenerativeModel("gemini-1.0-pro")
chat = model.start_chat(history=[])
```

```
def get_gemini_response(user_input, num_lines):
    try:
        question = f"generate a comic type story on {user_input} in {num_lines} lines"
        response = chat.send_message(question)
        return response.text # Accessing the text attribute directly
    except Exception as e:
        return f"Error: {e}"
```



```

def generate_comic_images(prompts):
    accelerator = accelerate.Accelerator()
    pipeline = DiffusionPipeline.from_pretrained(
        "ogkalu/Comic-Diffusion",
        low_cpu_mem_usage=True
    )

    device = accelerator.device
    pipeline.to(device)

    for i, prompt in enumerate(prompts, 1):
        try:
            start_time = time.time()
            image = pipeline(prompt).images[0]
            save_path = f"comic_image_{i}.png"
            image.save(save_path)
            # image.show()
            end_time = time.time()
            print(f"Image generated and saved as '{save_path}' in {end_time - start_time} seconds")
        except Exception as e:
            print(f"Failed to generate image for prompt {i}: {e}")

# User input for the content topic
user_input = input("Enter a topic for your comic story: ")
num_lines = int(input("Enter the number of panels in the comic story: "))

if user_input and num_lines > 0:
    response = get_gemini_response(user_input, num_lines)
    if "Error" not in response:
        print("Generated story:")
        print(response.strip())

        # Generate prompts for comic image generation based on the story
        prompts = response.strip().split("\n")
        print("\nPrompts for Comic Image Generation:")
        for i, prompt in enumerate(prompts, 1):
            print(f"Prompt {i}: {prompt.strip()}")

        # Generate comic images for each prompt
        generate_comic_images(prompts)
    else:
        print("Failed to get a response. Please try again later.")
else:
    print("Please input a valid topic and number of panels before starting.")

```



Enter a topic for your comic story: batman and joker

Enter the number of panels in the comic story: 3

Generated story:

Batman watched in horror as the Joker's laughter echoed thr
Chaos reigned as the Joker's bomb exploded, leaving a trail
In the end, Batman stood victorious, but the Joker's legacy

Prompts for Comic Image Generation:

Prompt 1: Batman watched in horror as the Joker's laughter e

Prompt 2: Chaos reigned as the Joker's bomb exploded, leavin

Prompt 3: In the end, Batman stood victorious, but the Joker

vae/diffusion_pytorch_model.safetensors not found

Loading pipeline components...: 100% 7/7 [00:14<00:00, 1.77s/it]

100% 50/50 [00:22<00:00, 2.23it/s]

Image generated and saved as 'comic_image_1.png' in 23.35 se

100% 50/50 [00:23<00:00, 2.18it/s]

Image generated and saved as 'comic_image_2.png' in 23.83 se

100% 50/50 [00:23<00:00, 2.10it/s]

Image generated and saved as 'comic_image_3.png' in 24.64 se