Tuesday, 10 September 2024

Unconditional Image Generation using Hugging Face

By using Diffusers

1. **Model Loading:** The DDMPipeline from Hugging face's diffusers library is used to load a pretrained DDPM model.

2. **Image Generation:** Generate images using random noise and denoise them using model's pipeline.

3. **Hugging Face Keras GAN:** The code uses `from_pretrained_keras` to load a pretrained GAN from Hugging Face's hub. We generate images from random noise vectors using this pretrained GAN.

4. **Image Visualization:** The generated images are visualized using `matplotlib`. A function `plot_generated_images` arranges images in a grid for easy visualization.

5. **Saving Generated Images:** Both DDPM and GAN-generated images are saved in PNG format for later use.