!pip install diffusers → Collecting diffusers Downloading diffusers-0.29.2-py3-none-any.whl.metadata (19 kB) Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.10/dist-packages (from diffusers) (8.1.0) Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from diffusers) (3.15.4) Requirement already satisfied: huggingface-hub>=0.23.2 in /usr/local/lib/python3.10/dist-packages (from diffusers) (0.23.5) Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from diffusers) (1.25.2) Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.10/dist-packages (from diffusers) (2024.5.15) Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from diffusers) (2.31.0) Requirement already satisfied: safetensors>=0.3.1 in /usr/local/lib/python3.10/dist-packages (from diffusers) (0.4.3) Requirement already satisfied: Pillow in /usr/local/lib/python3.10/dist-packages (from diffusers) (9.4.0) Requirement already satisfied: fsspec>=2023.5.0 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.23.2->diffusers) (20 Requirement already satisfied: packaging>=20.9 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.23.2->diffusers) (24. Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.23.2->diffusers) (6.0.1) Requirement already satisfied: tqdm>=4.42.1 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.23.2->diffusers) (4.66.4 Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.23.2->diff Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.10/dist-packages (from importlib-metadata->diffusers) (3.19.2) Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (3.3.2) Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (3.7) Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (2.0.7) Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (2024.7.4) Downloading diffusers-0.29.2-py3-none-any.whl (2.2 MB) · 2.2/2.2 MB 54.2 MB/s eta 0:00:00 Installing collected packages: diffusers Successfully installed diffusers-0.29.2 4 from PIL import Image from diffusers import StableDiffusionPipeline import torch # Loading th model original\_image = Image.open("/content/assignment.jpg") # new size (1280x1280) by adding 128 pixels on each side new\_size = (original\_image.width + 256, original\_image.height + 256) # Create a new blank canvas new\_canvas = Image.new("RGB", new\_size, (255, 255, 255)) # Pasting the original image new canvas.paste(original image, (128, 128)) # Loading the Stable Diffusion pipeline pipe = StableDiffusionPipeline.from pretrained("runwayml/stable-diffusion-v1-5", torch dtype=torch.float16).to("cuda") # Prompt giving prompt = "A young boy with brown hair and a jacket is at the helm of a ship, pointing towards a whimsical island that floats in the sky. The # Generating the outpainted image outpainted\_image = pipe(prompt=prompt, image=new\_canvas, num\_inference\_steps=100,guidance\_scale=13).images[0] # Saving the outpainted image outpainted\_image.save("outpainted\_image.png")

7/7 [00:20<00:00, 3.69s/it]

100/100 [00:14<00:00. 6.77it/s]

Loading pipeline components...: 100%

100%