Sweetnbrothers

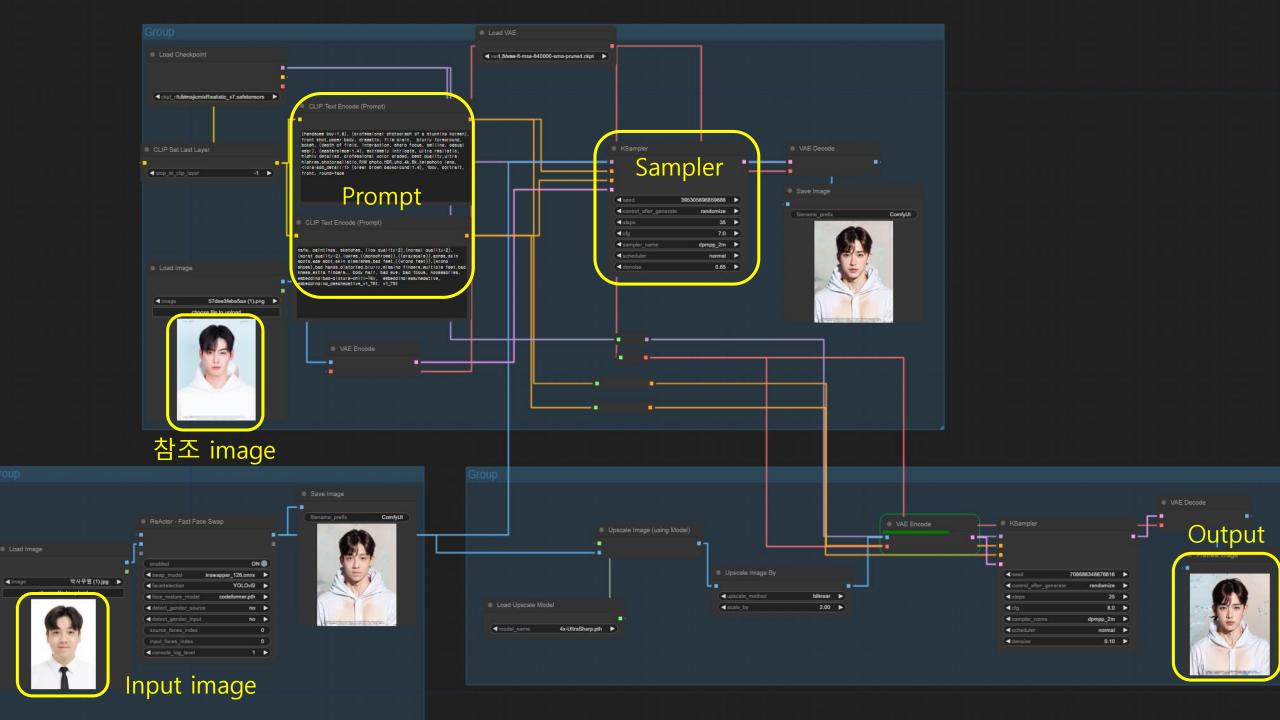
박사무엘, 남궁맑음, 강동훈, 김아진, 정양섭, 지주영



- 사용자의 image를 받아 프로필 image가 나오는 것이 목표.
- Image to Image AI 모델과 MVP 데모 만들기

Architecture DE **gradio** 127.0.0.1 DS 192.168.0.7:7860 127.0.0.1:7869 **Stable Diffusion** web development, one drop at a time







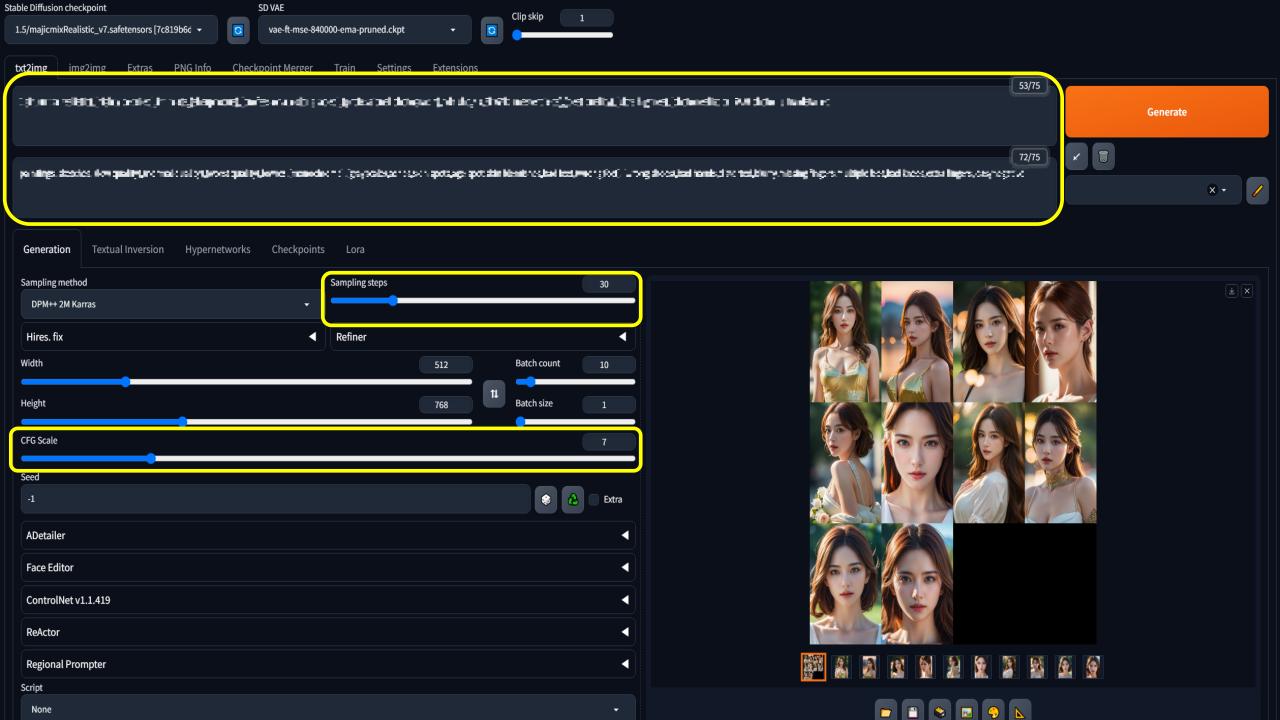




output Image

** gender1 = "handsome male" / gender2 = "1boy"

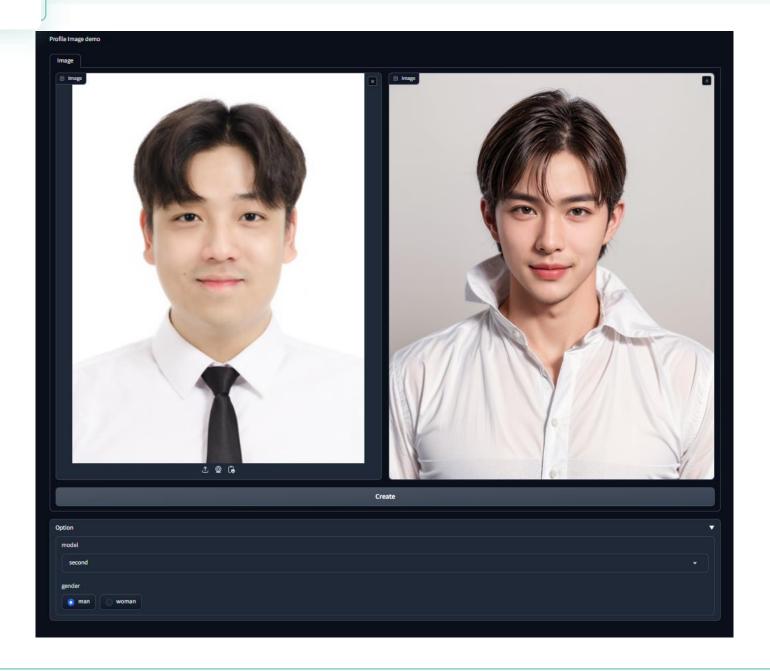
negative_prompt = "nsfw, paintings, sketches, (low quality:2),(normal quality:2),(worst quality:2),lowres,((monochrome)), ((grayscale)), acnes, skin spots,age spot, skin blemishes,bad feet, ((wrong feet)), (wrong shoes), bad hands,distorted, blurry, missing fingers, multiple feet, bad knees, extra fingers, body hair, bad eye, bad focus, Accessories, bad-picture-chill-75v, easynegative, ng_deepnegative_v1_75t"

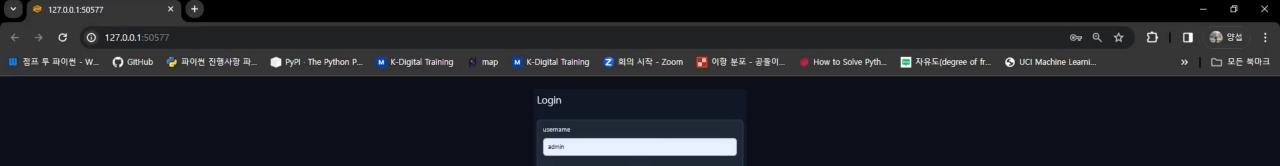




```
ort numpy as np
    ort gradio as gr
   ort requests
    ort cv2
  mport base64
 mport io
 mport json
 from PIL import Image, PngImagePlugin
url = "http://192.168.0.7:7860"
 ef i2i(img , select_model , gender):
    _, bytes = cv2.imencode('.png', img)
    image_code = base64.b64encode(bytes).decode('utf-8')
    params = {
       "init_images" : [image_code],
"gender" : gender
    res = requests.post(f"{url}/i2i", data=json.dumps(params))
response_data = res.json()['images']
    image = Image.open(io.BytesIO(base64.b64decode(response_data.split(",",1)[0])))
    return image
                                           ──── 블록 레이아웃
  ith gr.Blocks() as demo:
    gr.Markdown("Profile Image demo")
    # 이미지 탭 주후에 다른 탭을 주가 가능
with gr.Tab("Image"):
        with gr.Row():
             image_input = gr.Image()
             image_output = gr.Image()
        image_button = gr.Button("Create")
                                                              ----> 옵션 바 (Dropdown, radio)
    with gr.Accordion("Option" ,open = False): --
        select_model = gr.Dropdown(["first", "second", "third"], type="value",value="second",label = "model",interactive =True)
gender = gr.Radio(["man", "woman"], type="value", value="woman",label="gender",interactive=True)
    image_button.click(i2i, inputs=[image_input,select_model,gender], outputs=image_output)
   __name__ == "__main__":
    demo.launch(auth=("admin","admin"))
```

Model Process





Login Page (DE Server)

추가 진행상황



- 로그인 기능
- 회원가입 기능
- 회원 로그 분석을 위한 시각화

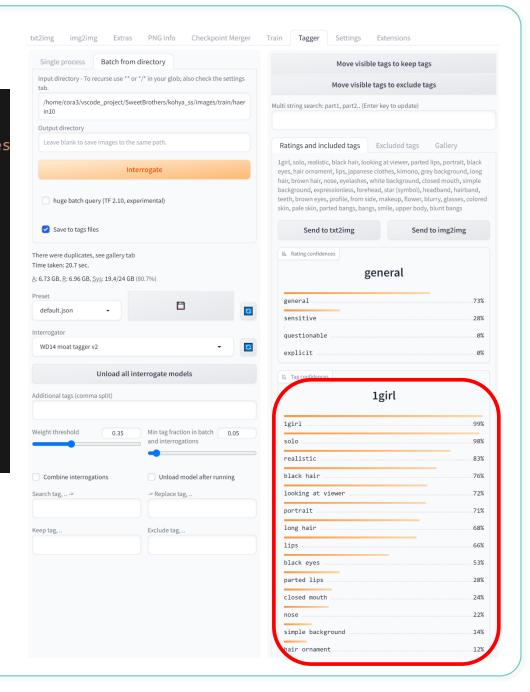


- 배치 대체

LoRA

```
export MODEL NAME="segmind/SSD-1B"
export VAE_NAME="madebyollin/sdxl-vae-fp16-fix"
export DATASET_NAME="/home/cora3/vscode_project/SweetBrothers/kohya_ss/images
accelerate launch train text to image_lora_sdxl.py \
  --pretrained model name or path=$MODEL NAME \
  --pretrained vae model name or path=$VAE NAME \
  --dataset name=$DATASET NAME --caption column="text" \
  --resolution=1024 --random flip \
  --train batch size=1 \
  --num train epochs=2 --checkpointing steps=500 \
  --learning rate=1e-04 --lr scheduler="constant" --lr warmup steps=0 \
  --mixed precision="fp16" \
  --seed=42 \
  --output dir="sd-pokemon-model-lora-ssd" \
  --validation_prompt="cute dragon creature" --report_to="wandb" \
   --push to hub
```

내가 원하는 데이터 셋에 write(f'{{"file_name": "{filename}", "text": "iom, {list_str}"}}₩n') 와 같 'iom' 같은 의미없는 특정 keyword를 공통적으로 추가하여 LoRA를 호출 가능하게끔 하는 것이 중요



감사합니다.