



Artistic Intelligence: Recreating Ivy Li's Magic

Bailey Fitts - jbf7128@uncw.edu; Corey Dearing - cld1465@uncw.edu; Chris Snyder - cas5514@uncw.edu;
Ixchel Peralta-Martinez - Iyp4754@uncw.edu; Maria Duran - mfd6863@uncw.edu; Tamara Tito Velarde - tat1026@uncw.edu;
Dr. Yang Song - songy@uncw.edu

1. Goal

- Our goal is to develop a LoRa model designed to replicate the unique art style characteristic of local artist Ivy Li.

2. Methods

Image Processing

- Standardized the images with Birme to resize them to 512x512 pixels.
- Annotated images with descriptive keywords in a text file for better categorization.



Create Embedding

- The embedding and image generation process involved the use of the Stable Diffusion web interface
- Generated embeddings by preprocessing images of Ivy Li's artwork. The process involves combining images with their corresponding keywords, using a naming convention like '000##-0-nameOfFile.png' for images and '000##-0-nameOfFile.txt' for text files, and then training the embeddings with this data.
 - Parameters set as follows:
 - A maximum of 5000 steps for the process.
 - Saving a snapshot of the image to the log directory every 50 steps.
 - Additionally, saving a copy of the embedding to the log directory at the same interval.
 - Storing images in PNG chunks alongside their embeddings.

Image Generation

- Employed text-to-image generation both positive prompts (elements to include) and negative prompts (elements to exclude) in conjunction with the custom embeddings, resulting in the generation of new images.
- Integrated a 'cyberrealistic' checkpoint downloaded from CivitAI.

Ongoing Work

- Developing a LoRA model, leveraging the Drengthbooth extension, to more accurately emulate Ivy Li's artistic style.

Ivy Li's Art: Can You Spot the AI?

