Sway

x.com/SwayStar123 | Diffusion Researcher | India | github.com/SwayStar123

WORK EXPERIENCE

FUEL LABS | Smart contract engineer   June 2022 – April 2025

- Worked on the Sway language core and std lib, helping shape how the language is used today. Contributed heavily to the example applications. Conducted code auditing for ecosystem projects. Wrote assembly for optimizing std lib functions.

BRIA AI | Diffusion Research Intern   August 2024 – Present

- Worked on distilling bria's t2i models, helped a bit with some of the t2i training, implementing alternative sampling methods, other diffusion research

SKILLS

Rust   3 years of professional experience
Python   6 years of using it for hobby and AI projects
PyTorch   Trained numerous types of image generation models

PROJECTS

2D ANIMATED BAD APPLE   https://www.youtube.com/watch?v=D7oc1Axl1h0
A 2D anime rendition of the famous shadow art music video, made using a custom UI workflow using modded Blender

RELATIVISTIC LOSS   https://github.com/SwayStar123/Simple-Relativistic-GAN-Loss
An easy to use library to implement the losses described in the R3GAN (Arxiv:2501.05441) and Seaweed (Arxiv:2501.08316) papers

DCAE   https://github.com/SwayStar123/DC_AE
Implementation of the Deep Compression Auto Encoder paper Arxiv:2410.10733

MICRODIFFUSION   https://github.com/SwayStar123/microdiffusion
An implementation of the "MicroDiT" sony diffusion paper. Arxiv: 2407.15811

REIMEI   https://github.com/SwayStar123/reimei
Custom diffusion transformer architecture, implementing numerous papers to make it efficient and prompt adherent

CONTRASTIVE FLOW MATCHING REPLICATION   https://github.com/SwayStar123/REPA
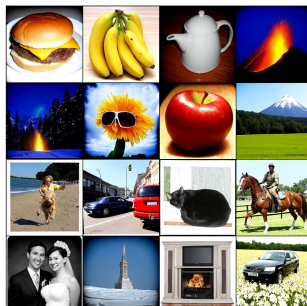Replicated the FM paper Arxiv:2506.05350

PERSONAL

TIMEZONE: IST / UTC+5:30 (INDIA)

NATIVE FLUENCY: ENGLISH, HINDI, MARATHI

HIGH WORKING PROFICIENCY: JAPANESE
JLPT N1 Certification

AGE: 21

T2I model trained for $1k

T2I model trained from scratch using public domain images