



Mohana krishna

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Skills

- NextJs and ShadCN UI
- Docker
- Performance improvement
- Pytorch
- FastAPI
- AWS Boto3
- Python and Bash proficiency
- Node js and Typescript
- English Proficiency
- Rust and Tauri
- PyQt5
- Image Diffusion and LLMs

A passionate full stack and ML developer dedicated to bringing ideas to life through code. With a love for crafting useful applications featuring amazing UI and visual elements, I find joy in building projects with genuine enthusiasm. I am a serious fan of PyTorch and deeply interested in the world of open-source local image diffusion and large language models.

Work History

Backend Developer and ML Programmer
Kliky AI, Kuwait, Kuwait (Remote) October 2023 - November 2024

- Developed a Text to Image Diffusion Pipeline based on Stable Diffusion 1.5, 2.1 and XL similar to Midjourney using techniques like Prompt Expansion, Second Pass Upscaling, Style Transfer(cross-attention conditioning from Image tokens). Then Deployed it using Docker on a Serverless compute provider like Runpod.
- Trained 3 Custom Image Diffusion Models.
- Developed a Conditional and unconditional Inpainting and Outpointing pipeline accessible via a Fastapi endpoint.
- Generated Aesthetic, High Resolution images for an Art Gallery in Al Hamra Tower, Kuwait City using a Modified Cross-Attention and Self-Attention in Stable Diffusion Model for creating Sharp Images with less-Artifacts.
- Assisted in development of a 8-bit Proprietary hybrid Quantization Approach for Small Diffusion Models
- Created a Personal avatar builder pipeline using Faceswap(based on Insightface) and LoRA Approach.
- Based on Prior approach, created a video Faceswap pipeline.
- Version management done using Github and Autobuild Script for building Docker Images using Github Actions.
- Create an secure and optimized Store and Retrieval System for generated images using AWS S3 Services.

Education

VIT Bhopal at Bhopal-Indore Highway Kothrikalan, Sehore, MP
B.Tech in Artificial Intelligence Expected in September 2027

- Novaflow, Lead Developer - A AI Assistant of automatic tasks for the user using Agentic workflows using LLMs. Support both online and offline LLMs

VVNKM Sr Secondary School at No. 56, DKM College Rd, Sainathapuram, RV Nagar, V
No Degree August 2023

Projects

- AegisHealth - An Assistant made to provide health related guidelines and can track the user health then update its context to provide the user with good suggestions and medications
- Novaflow - An general LLM powered assistant that can run locally or run from a bunch of supported LLM Provider and can interact with the file system directly.
- NeuroArt - A minimalist web app for Flux Dev using ComfyUI as the backend. It uses a workflow builder that builds workflows from provided templates which makes it significantly easier to update or add new workflows.