

SIDDHI KOMMURI

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SUMMARY

AI Developer with experience in building practical solutions using large language models and computer vision. Skilled in improving image-generation workflows and leading data programs. Known for delivering projects that save time and reduce costs, while collaborating across teams to turn ideas into reliable products.

SKILLS

Image Processing & Generation: Python, OpenCV, scikit-image, PIL, PyTorch, Diffusion Models (image generation, inpainting, denoising), Transformers, Hugging Face Diffusers

NLP & LLMs: PyTorch, OpenAI API, LangChain, RAG (Retrieval-Augmented Generation), Reinforcement Learning, MCP

EXPERIENCE

AI Developer

Apr 2024 – Present

Zikhara AI

Remote

- Fine-tuned domain-specific LLaMA models to generate appliance product manuals (refrigerators, air conditioners), improving factual accuracy by 28%, readability by 22%, and reducing documentation cycle time by 35% and cost by 40%.
- Built custom ComfyUI nodes and pipelines with ControlNet/IP-Adapter, improving prompt-image alignment by 20% (CLIPScore), cutting manual touchpoints by 60%, and accelerating time-to-first-image by 45%.
- Created Python tooling such as SVG-to-JSON converters for preprocessing and model integration, tripling prototyping speed.
- Led dataset initiatives with a cross-functional team of 4, curating 250k+ labeled examples across 30+ categories; maintained high annotation consistency and reduced noise by 35% via automated validation.
- Developed computer-vision pipelines to map visual inputs into 300+ structured datasets, processing 1.2M+ images/month at <200 ms/image, achieving 93% macro-F1 and reducing manual effort by 75%.
- Collaborated with PM/design and customer teams to translate ambiguous requirements into SOPs, annotation guidelines, and playbooks that reduced onboarding time by 50% and improved throughput.

PROJECTS

Collaborative Generators GAN (Ongoing Research) | *PyTorch, Deep Learning*

2025

- Investigating solutions to **mode collapse** in GANs by enabling diverse and stable sample generation.
- Designed a **multi-generator GAN architecture** where multiple generators compete against a single discriminator, each specializing in different data modes.
- Benchmarks planned on **MNIST and CIFAR-10** to show higher Inception Score (IS) and lower Fréchet Inception Distance (FID) compared to standard GANs.
- **Tech stack:** PyTorch, Wasserstein loss, class-conditional training extensions.

Multi-LLM AI Agent for Testing Automation | *LlamaIndex, Ollama*

2025

- Reduced manual effort in writing unit tests by creating an AI-powered test generation system.
- Built an agent that parses code and documentation, then auto-generates Python test scripts using a **multi-LLM workflow** (CodeLlama, Mistral).
- Automated generation of 70–80% of repetitive test cases, cutting developer time spent on test writing by **40–50%**, while improving code coverage.
- **Tech stack:** Ollama for LLM orchestration, LlamaIndex for vector storage, LlamaParse for structured parsing in RAG workflows.

EDUCATION

KJ Somaiya Institute of Technology

Mumbai

Bachelor of Technology in Computer Engineering, Honors in Blockchain

Holy Cross Convent School

Mumbai

High School