Samay Powade

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PROFESSIONAL SUMMARY

AI Engineer focused on building end-to-end AI systems across computer vision, NLP, and generative AI. Hands-on experience building and deploying real-world applications including a human-detecting surveillance drone, a privacy-centric RAG-based document intelligence platform, and an AI-powered voice assistant. Strong foundation in machine learning, deep learning, and LLM-based workflows, with experience deploying models using FastAPI, Docker, and Hugging Face. Active open-source contributor with a focus on secure, scalable, and user-friendly AI systems.

TECHNICAL SKILLS

Languages:	Python, SQL
AI/ML:	PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, LangChain
Computer Vision:	OpenCV, YOLO
NLP & LLMs:	GPT, LLaMA, Prompt Engineering, STT, TTS
Backend & APIs:	FastAPI, Flask, REST APIs, Docker, Firebase, MongoDB
Vector Databases:	FAISS, ChromaDB
Cloud & Tools:	AWS (S3, EC2), Git, GitHub, Linux, CI/CD

OPEN SOURCE & PRACTICAL EXPERIENCE

Open-Source Contributor | Machine Learning & AI   *2026 - Present*
GitHub Profile | Hugging Face Profile

- Contributed bug fixes and improvements to open-source machine learning libraries, including issue resolution related to model behavior and preprocessing workflows
- Published and maintained trained ML and deep learning models on Hugging Face Hub with documented inference pipelines
- Built and shared reproducible AI projects with clean code, documentation, and deployment-ready APIs

PROJECTS

Surveillance Drone - Human Detection & Emergency Support | GitHub   *Oct 2025 - Dec 2025*
Python, PyTorch, OpenCV, YOLO, Computer Vision, Real-time Video Processing

- Built AI-powered surveillance system with real-time human detection from aerial drone video feeds
- Implemented deep learning object detection model processing live video streams for emergency response
- Optimized detection pipeline for low-latency inference with high accuracy in critical safety scenarios

Sarthi Astra - RAG-Based Document Intelligence System | GitHub   *Aug 2025 - Nov 2025*
Python, LangChain, Vector DB, LLMs, RAG, Embeddings, Privacy-focused AI

- Developed privacy-first RAG system for government use with secure document processing and retrieval
- Built end-to-end pipeline: document ingestion, chunking, embeddings, vector search, LLM response generation
- Implemented encryption and on-prem deployment architecture for data sovereignty and security compliance

Chetana Labs - AI-Powered Voice Assistant | GitHub   *May 2025 - July 2025*
Python, NLP, Speech-to-Text, Text-to-Speech, Flask, REST APIs

- Created conversational AI assistant with speech recognition, NLP intent processing, and voice synthesis
- Integrated speech-to-text and text-to-speech pipelines for natural voice-based system interaction
- Built backend APIs supporting real-time voice interactions and multi-component AI system integration

HACKATHONS & ACHIEVEMENTS

- **Hackathon Participant** | Built AI/ML-based prototypes under time constraints and team collaboration
- **Active Learner - AI & Machine Learning** | Completed multiple foundational courses via LinkedIn Learning and online platforms

EDUCATION

B.Tech in Computer Engineering   *2024 - 2027*
Gramin Technical and Management Campus, Nanded

Diploma in Computer Engineering   *2021 - 2024*
Gramin Technical and Management Campus, Nanded