SAMRUDDHI MORE

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SUMMARY

Machine Learning Engineer specializing in computer vision, NLP, and generative AI. With expertise in Python, PyTorch, TensorFlow, LangChain, and FastAPI. I have hands-on experience deploying ML models on AWS and integrating AI solutions into production systems. Passionate about AI research, deep learning, and LLMs.

TECHNOLOGY STACK

- **Languages: Python SQL**
- **Frameworks & Libraries: LangChain, Llama-Index, FastAPI, Django Rest Framework, OpenAI, PyTorch, TensorFlow, Hugging Face, GroqCloud, Streamlit**
- **Machine Learning & Deep Learning: NLP, Computer Vision, Fine-tuning LLMs, Transfer Learning, YOLO, Vision Transformers**
- **Large Language Models (LLMs): OpenAI, LLaMA, Ollama, Krutrium, Anthropic**
- **Vector Search & Embeddings: FAISS, Chroma, Sentence Transformers, Retrieval-Augmented Generation (RAG)**
- **Databases: MySQL, PostgreSQL**
- **Cloud & Deployment: AWS (EC2, S3), AI Model Deployment, Docker, Hugging Face API, REST APIs**
- **Tools: Power BI, Advanced Excel, v0, Lovable, vercel, Render**
- **Version Control & Virtualization: Docker, Git, GitHub**
- **Miscellaneous: Prompt Engineering, Data Preprocessing, Feature Engineering, Model Optimization, Predictive Analytics**

WORK EXPERIENCE

PUBLISHED - MEDIUM

Blog

Building a Streamlit App to Digitize Health Community Data Entry in 48 Hours

Aug 2025

- Authored a technical blog documenting how I built and deployed a Streamlit-based health data entry system within 48 hours.
- Designed a custom HTML/CSS UI, integrated PDF report generation (ReportLab), and created structured data entry forms.
- Automated Google Drive integration for CSV storage and implemented post-consultation update workflows.
- Deployed the app on Render for cross-device accessibility.
- Blog Link: Medium

PROJECT 01

Pyrack Solutions Pvt Ltd

(Position: Machine Learning)

Automating Security Surveillance in Warehouse and Outdoor Premises

Sept 2023 - Feb 2025

- Spearheaded the development of an AI-powered real-time security surveillance system using YOLOv11 and OpenCV.
- Designed real-time object detection and tracking for identifying unauthorized access, hazardous zones, and anomalies.
- Integrated anomaly detection algorithms to enhance security insights from live video feeds.
- Deployed the system on AWS EC2 for scalability and optimized real-time inference..

PROJECT 02   **Developing Customer Support Technical Chatbot**

- Developed an LLM-powered chatbot for technical support using GPT-3.5 and LLama.
- Implemented RAG (Retrieval-Augmented Generation) using FAISS & Chroma for efficient response generation.
- Designed a multilingual chatbot with automatic language detection and translation.
- Built Django Rest Framework (DRF) APIs to enable chat history retrieval, session management, and query resolution.
- Integrated prompt engineering and context-aware response mechanisms for improved chatbot interactions.

PROJECT 03   **Defect Classification and Prescription Generation**

- Performed data collection, cleaning, manipulation and preparations for classification models.
- Developed a Vision Transformer-based classification model to detect manufacturing defects.
- Integrated the model with Django backend into an interactive reporting system.

PROJECT   **CAM TOOLs Technologies Pvt Ltd**   **Jan 2023 - May 2023**
(Position: Data Scientist)

- Developed an interactive dashboard to perform data visualization on the company's (IoT) data using Power BI.
- Conducted data analysis and upon everyday's manufacturing data and providing my business insights to the authority.

ADDITIONAL INFORMATION

WORKSHOP EXPERIENCE

Volunteer Work and Affiliations

- Conducted a Data Visualization workshop on Power BI and Tableau at Symbiosis Skills and Professional University.

CERTIFICATION

Internshala: Advanced Excel
DataCamp: Data Analyst using Power BI
Udemy: Django Rest Framework, The Project Managment

EXTRACURRICULARS AND ACHIEVEMENTS

Art: Kathak Level 3 (Distinction), Nail Artist
Sports: All-Rounder Girl Award in Cricket
Social Work: Secretary for Kids Rotary Club (Age 16)

CONTENT CREATION

Active blogger on Medium, sharing projects in AI, data science applications and whatever makes daily tasks easier using tech.