Suyash Ambule

Jr Machine Learning & GenAI Engineer

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Technical Skills

Languages: Python, SQL

ML/LLM: TensorFlow, PyTorch, Scikit-learn, Hugging Face, NLP, Transformer

LLM & AI Frameworks: LangChain, RAG, LoRA, QLoRA, Prompt Engineering, CrewAI, LangGraph, LlamaIndex

Databases & Deployment: Vector Databases, FAISS, Pinecone, Docker, FastAPI, Flask, GitHub Actions

Experience

AI/ML Intern, Chedo Tech   Feb 2025 – May 2025

- Fine-tuned transformer-based LLMs (e.g., DeepSeek R1) for information extraction from unstructured text
- Deployed AI models into production-ready applications via Flask-based REST APIs for real-world use cases.
- Applied prompt engineering techniques to enhance LLM response quality and task relevance across domains.

AI/ML Research Intern, House of Couton   Sept 2024 – Dec 2024

- Developed data collection and preprocessing to enable AI/ML research and experimental model training.
- Applied core ML techniques to investigate research questions and generate insights for early-stage prototypes.

Projects

CrewAI Data Science Automation   Github

- Developed an agentic AI system using CrewAI to automate end-to-end data science workflows, including data preparation, EDA, model training, and evaluation.
- Designed and orchestrated role-specific AI agents for data cleaning, visualization, model selection, and performance reporting, ensuring modular and reusable automation.
- Streamlined the ML lifecycle by enabling autonomous process execution through CrewAI's multi-agent framework, reducing manual intervention and improving productivity.

LangGraph Agentic AI Chatbot   Github

- Developed a multi-agent conversational chatbot using LangGraph with LLM-based reasoning and decision-making for dynamic, context-aware responses.
- Designed modular conversation flows enabling the chatbot to adapt to diverse user intents and perform task-specific actions autonomously.
- Designed autonomous task execution flows for the chatbot to operate without manual intervention.

Achievements

- **Predict the Introverts from the Extroverts** - Kaggle Playground Series (Ranked 51/4329)
- **Make Data Count - Finding Data References** - Kaggle Research Competition (Currently participating)
- **CMI - Detect Behavior with Sensor Data** - Kaggle Featured Competition (Ranked 92/2418)

Education

Vishwakarma University, Bachelor in Computer Science   Sept 2021 – May 2025