

Shashank Rai

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🌐 linkedin 📄 Kaggle Repository 📁 Portfolio

SUMMARY

M.Tech student at IIIT Lucknow with practical experience in AI, machine learning, and generative AI. Proficient in developing multi-agent systems, RAG-based chatbots, and LLM-powered automation tools using LangChain, Gemini Pro, and CrewAI. Strong foundation in Python, deep learning, and MLOps with a focus on building scalable, real-world AI solutions.

EDUCATION

Indian Institute of Information Technology, Lucknow <i>Master of Technology(M.Tech) in Computer Science</i>	2023 – 2025 GPA: 8.25
Krishna Engineering College, Ghaziabad <i>Bachelor of Technology(B.Tech) in Computer Science</i>	2018 – 2022 GPA: 7.56

PROJECTS

Agentic-AI Meeting Minutes Generator | CrewAI ,Gmail API

- Automated .wav audio transcription and summarization by creating an AI workflow, synthesizing key points including sentiment analysis and action items, improving documentation efficiency by 8 hours weekly.
- Spearheaded development of an AI-powered workflow leveraging CrewAI agents and Gemini 1.5 Pro to transcribe meeting audio, resulting in a 90% reduction in manual documentation efforts.

Agentic-AI Customer Support Ticket Analyzer & Router | Pydantic-AI

- Built a multi-agent LLM system using Pydantic for automated support ticket triaging—analyzing intent, urgency, and priority—achieving 85%+ routing accuracy and enabling 24/7 customer query resolution.

RAG-Based Chatbot for Gym Customer Support| LangChain, LangGraph

- Developed a LangChain-based RAG chatbot with Gemini-1.5 Pro and ChromaDB, delivering real-time, context-aware answers to 50+ gym-related queries via MMR-based retrieval and chat history-aware prompts.

Self-Drive Car | Computer Vision, YOLO

- Built a real-time self-driving car simulation using OpenCV and YOLO for lane detection and steering angle prediction, achieving 92% accuracy across test tracks using multi-model training on merged datasets.

WORK EXPERIENCE

IIIT Lucknow <i>Teaching Assistant</i>	Aug 2023 – Present
<ul style="list-style-type: none">Facilitated weekly lab sessions for 80+ B.Tech and M.Sc. Computer Science students, achieving a 95% student satisfaction rate based on semester-end feedback surveys regarding teaching quality.Assisted in grading assignments and evaluating answer sheets in OS and Networking labs.	

SKILLS

- Programming & Computer Science:** Python, C, SQL, OOP, DSA, OS, DBMS
- Machine Learning & AI:** Supervised/Unsupervised Learning, Deep Learning (ANN, NLP), CNN Architectures (InceptionNet, RCNN, UNet, YOLO)
- LLMs & Generative AI:** LangChain, LangGraph, CrewAI, n8n, MCP, Pydantic-AI, RAG, Agentic-AI, Prompt Engineering, Fine-Tuning
- Frameworks & Libraries:** PyTorch, TensorFlow, Keras, Scikit-learn, Pandas, Matplotlib, FastAPI
- MLOps & Software Engineering:** Git, Docker, DVC (local, AWS S3), MLflow (local, DagsHub, AWS), Experiment Tracking

PUBLICATIONS (IN PROGRESS)

A Two-Phase ML Framework for Detecting Cyberattacks on EV Charging Systems – focuses on Attacks detection and classification in smart EV infrastructure.