

DEEPAK KUMAR RAUTA

AI Developer | LLM Engineer | RAG & Agentic Systems Enthusiast

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PROFESSIONAL SUMMARY

AI/ML Developer specializing in Generative AI, RAG architectures, and multi-Agent systems. Leverages deep technical expertise in RLHF and model alignment from the Google Gemini Project to build robust, hallucination-free applications. Proficient in deploying scalable AI solutions using Python, FAISS, and Streamlit.

WORK EXPERIENCE

Associate – Google Gemini AI Project | Wipro

(April 2025 – Present)

- Optimized Model Alignment via RLHF: Generated high-quality ground-truth data for Reinforcement Learning from Human Feedback (RLHF) loops, identifying complex logic gaps and edge cases to refine model reasoning.
- Technical Failure Analysis: Conducted root cause analysis on multimodal model outputs to detect hallucinations and safety vulnerabilities, ensuring robust adherence to Responsible AI frameworks.
- Data Integrity & Quality Assurance: Achieved 100% precision and recall in data annotation pipelines, minimizing dataset noise to provide high-fidelity training signals for model fine-tuning.

SKILL SUMMARY

- **Programming Languages:** Python, SQL
- **Artificial Intelligence & Machine Learning:** Scikit-learn, TensorFlow, PyTorch
- **Generative AI & Large Language Models:** LLaMA, Falcon, Mistral, Gemini AI, Prompt Engineering
- **Agentic AI & Retrieval Systems:** RAG Pipelines, Vector Databases (FAISS, Pinecone)
- **Tools & Frameworks:** Streamlit, GitHub, RESTful APIs, Microservices Architecture
- **Version Control:** Git, GitHub Actions

PROJECTS

1. RAG Document Q&A Chatbot | [GitHub Link](#)

- Developed a context-aware chatbot capable of answering queries from uploaded documents and live web sources using a Retrieval-Augmented Generation (RAG) framework.
- Engineered a pipeline integrating PDF parsing, vector embeddings (Sentence Transformers), and semantic retrieval via FAISS for precise and fast context matching.
- Enhanced information accessibility and user interaction through real-time query processing and relevant web content integration.
- Tech Stack: Python, Streamlit, FAISS, Sentence Transformers, Google Gemini AI, GitHub

2. Vehicle Number Plate Detection | [GitHub Link](#)

- Developed an AI-powered web application for automatic vehicle number plate detection and text extraction using OpenCV and Tesseract OCR.
- Implemented Haarcascade classifiers for plate detection and optical character recognition (OCR) for accurate number extraction.
- Outcome: Delivered a reliable end-to-end system for real-time vehicle plate recognition with automated text extraction.
- Tech Stack: Python (OpenCV, NumPy, PIL, Tesseract OCR), Streamlit

EDUCATION

○ Master of Computer Applications (MCA)

(November 2022 - June 2024)

National Institute of Science & Technologies, Berhampur, Odisha

CERTIFICATION

○ Full Stack Data Science & AI

(July 2024 – March 2025)

Naresh IT, Hyderabad, Telangana