

AMAN KUMAR RAI

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Education

International Institute of Information Technology, Bhubaneswar 2022 – 2026
B.Tech in Computer Engineering (CGPA: 8.21) Bhubaneswar, India

Experience

Global e Village India Limited (GESIL) Apr 2025 – Jun 2025
AI Intern Bhubaneswar, India

- Built a GenAI chatbot using a Retrieval-Augmented Generation (RAG) pipeline to process PDFs, Excel files, and OCR-based images.
- Developed UI with login, structured chat history, and session memory for 100+ users.
- Containerized the entire application using Docker for modular, production-grade deployment.

National Aluminium Company Limited (NALCO) Jun 2024 – Jul 2024
Chatbot Intern Damanjodi, India

- Created a chatbot using LLMs integrated into internal HR/IT portals.
- Optimized response quality through model tuning and iterative training.
- Collaborated with 3 cross-functional teams to deploy within 2 weeks.
- Improved internal query turnaround through digitized automation.

Projects

ChatBot for Clothing Store GitHub
– Built an LLM-based chatbot that queries SQL data to provide product details.
– Tech: Python, LangChain, Streamlit, MySQL

Currency Converter Bot Live Demo
– Developed a real-time currency converter using Dialogflow and Flask APIs.
– Integrated bot with Telegram for chat-based UX.

Netflix Recommendation System Live Demo
– Developed content-based recommender with 90%+ accuracy using TF-IDF on 5K+ titles.
– Used Python, Scikit-learn, Seaborn; visualized insights with Matplotlib.

Technical Skills

- **Languages:** Python, C++, SQL
- **Frameworks/Tools:** FastAPI, Django/Flask, Streamlit, LangChain, Dialogflow, Docker, Git
- **Data/ML:** Pandas, NumPy, Scikit-learn, TensorFlow, NLP, LLMs (GPT, Mistral, Gemini)
- **Databases:** PostgreSQL, MySQL
- **Other:** Modular Design, Prompt Engineering, Chatbots, Session Mgmt

Achievements

Bit N Build Hackathon (Fr. CRCE) Feb 2024
Semi-Finalist Mumbai, India

- Built a currency detector for visually impaired users with fake-note detection.

Smart India Hackathon (SIH) Sep 2024
Finalist IIIT Bhubaneswar

- Designed a terrain analysis system using reinforcement learning for lunar rovers.
- Integrated data preprocessing, real-time path validation, and dynamic navigation.

Nukkad Natak Competition Mar 2024
2nd Prize Winner Bhubaneswar, India

- Won 2nd prize among 10+ teams for social-awareness street play performance.

Certifications

Python for Data Science and Machine Learning Bootcamp – Udemy (2025)

LLM Engineering: Master AI, Large Language Models Agents – Udemy (2025)