

AMAN KUMAR RAI

+91-8076275320 ✉ rai.aman1909@gmail.com  Aman Rai  RaiKumarAman

Education

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

Experience

Global e-Village Services India Ltd (GESIL) Apr 2025 – Jun 2025
AI Intern Bhubaneswar, India

- Built a RAG-based GenAI chatbot for PDFs/Excels/OCR, reducing manual search time by **70%** (*LangChain, FastAPI, PostgreSQL, pgvector, Tesseract OCR*).
- Developed UI with login, structured chat history, and session memory for 100+ users, boosting engagement by **40%** (*Flask*).
- Containerized the application for modular, production-grade deployment, cutting deployment time from days to hours (*Docker*).

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

- Created an HR/IT chatbot automating **200+** weekly employee queries (*Python, Flask, MySQL Workbench, LangChain, Google Gemini*).
- Optimized response quality via model tuning and iterative training, improving accuracy by **30%**.
- Collaborated with 3 cross-functional teams to deploy within 2 weeks, accelerating digital adoption across departments.
- Improved internal query turnaround time by **50%** through digitized automation.

Projects

Data Storyteller *Python, Streamlit, Pandas, Plotly, LangChain, Gemini API* [\[Live Demo\]](#)

- Built an AI chatbot to analyze CSV/Excel files via natural language, reducing analysis time for non-technical users by **80%**.
- Integrated interactive data visualization (Plotly) and conversational analytics, enabling real-time insights.
- Deployed on Streamlit Cloud with multi-user support for seamless accessibility.

ChatBot for Clothing Store *Python, LangChain, Streamlit, MySQL* [\[GitHub\]](#)

- Developed an LLM-powered chatbot to query SQL product database, cutting query resolution from minutes to seconds.
- Boosted product discovery efficiency by **35%** through natural language search.
- Designed a clean Streamlit interface with real-time responses and MySQL backend integration.

Netflix Recommendation System *Python, Scikit-learn, Seaborn, Matplotlib* [\[Live Demo\]](#)

- Implemented a content-based recommender using TF-IDF on 7K+ Netflix titles, achieving **90%** accuracy.
- Enhanced personalization by recommending niche genres and improving user satisfaction.
- Visualized recommendation patterns with Seaborn and Matplotlib to aid interpretability.

Technical Skills

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

Achievements

- Joint Secretary, Film and Theatre Society – Coordinated cultural events and led society initiatives at IIIT Bhubaneswar.
- Semi-Finalist, Bit N Build Hackathon – Built a currency detector for visually impaired users with fake-note detection.
- Amazon ML Summer School – Completed program focused on ML fundamentals and applications.

Certifications

Python for Data Science and Machine Learning Bootcamp – Udemy (2025) [\[link\]](#)

Developer and Technology Job Simulation – Accenture (2024) [\[link\]](#)