

AMAN KUMAR RAI

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EDUCATION

International Institute of Information Technology, Bhubaneswar 2022 - 2026
B.Tech in Computer Engineering - 8.19 CGPA (till 5th Semester) Bhubaneswar, India

Central Academy 2020 - 2021
12th Grade - 94.2% Lucknow, India

TECHNICAL SKILLS

- **Languages:** Python, C++, C
- **Data Analysis:** SQL, Numpy, Pandas, Seaborn, Matplotlib
- **Machine Learning & Deep Learning:** TensorFlow, Keras, NLP, LLM
- **Tools & Frameworks:** Django, Streamlit, LangChain, Dialogflow

PROJECTS

ChatBot for Clothing Store | *GitHub*

- Developed a chatbot prototype capable of retrieving real-time data from SQL databases using a Large Language Model (LLM), enhancing user interaction and data accessibility.
- Utilized Python, Langchain, Streamlit, MySQL.

Currency Converter Bot | *Telegram*

- Built a currency converter bot using Dialogflow for natural language understanding and Flask for backend API integration to provide real-time currency conversion.
- Integrated the bot with the Telegram platform to enable real-time currency conversion through chat-based interactions

Netflix Movies and Shows Recommendation | *GitHub*

- Developed a content-based filtering recommendation system to suggest Netflix movies and TV shows based on user preferences and item features.
- Utilized Python, Pandas, Scikit-learn, Matplotlib, Seaborn
- Applied TF-IDF vectorization and cosine similarity to enhance recommendation accuracy.

EXPERIENCE

Global e Village India Limited(GESIL) | *Internship* March 2025 – Present Bhubaneswar, India

- Developed an advanced chatbot system using Python, leveraging AI and LLMs (Large Language Models) for intelligent data retrieval and processing from SQL databases, PDFs, and images. The system features complaint registration and status tracking with unique token generation and seamless database integration. Utilized LangChain and Mistral-7B LLMs to enable context-aware, AI-powered responses across diverse data formats. The solution provides a highly efficient and intuitive user experience through a Django-based backend, ensuring seamless interaction, AI-driven insights, and real-time data handling.

National Aluminium Company Limited (NALCO) | *Internship* June-July 2024 Damanjodi, India

- Developed a chatbot for the employees' portal using Large language Models(LLM). Implemented NLP techniques for accurate query responses. Integrated and tested the chatbot within the existing system. Collaborated with IT,HR, and support teams to ensure functionality and alignment with employee needs. This project improved the needs of the employees. This project improved my skills in AI and chatbot development and improved the digital experience for NALCO employees.

ACHIEVEMENTS

Bit N Build | *Fr. Conceicao Rodrigue College Of Engineering* Feb 2024 Mumbai, India

- Advanced to the semi-finals in GDSC-hosted Hackathon.
- Engineered a Currency Detector for visually impaired individuals to identify counterfeit currency.

Smart India Hackathon | *IIIT Bhubaneswar* Sept 2024 Bhubaneswar, India

- Selected for Smart India Hackathon (SIH), showcasing skills in problem-solving and innovation.
- Developed a reinforcement learning-based Automated Terrain Analysis System for lunar rovers, integrating data preprocessing, terrain analysis, dynamic path generation, and real-time path validation.