AMAN KUMAR RAI

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EDUCATION

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

EXPERIENCE

Global e Village India Limited(GESIL) | *Internship*　　　　**April – June 2025**
Bhubaneswar, India
- Developed a production-ready AI chatbot system using FastAPI, LangChain, and Mistral-7B.
- Automated real-time data retrieval from SQL databases, PDFs, and image-based OCR.
- Designed and deployed a complaint tracking platform with token generation and live status updates.
- Ensured seamless backend performance and continuous integration using DevOps principles.
- Improved system scalability and robustness by deploying modular service components.

National Aluminium Company Limited(NALCO) | *Internship*　　**June - July 2024**
Damanjodi, India
- Created an employee-support chatbot integrated into internal portals using LLM and NLP techniques.
- Executed model training and chatbot refinement to optimize query responses.
- Led testing, integration, and deployment phases alongside IT and HR teams.
- Helped digitize support operations, improving response time and internal communication.

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.

TECHNICAL SKILLS

- **Languages:** Python, C++, C
- **Data Analysis:** SQL, Numpy, Pandas, Seaborn, Matplotlib
- **Database Systems:** PostgreSQL, MySQL, SQLite
- **Tools & Frameworks:** Django, Streamlit, LangChain, Dialogflow, FastAPI
- **ML/NLP:** TensorFlow, Scikit-learn, NLP, LLMs (Mistral 7B, Gemini, GPT)

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**
Bhubaneshwar, 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.