

AAYUSH SAHU

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EDUCATION

Government Engineering college Raipur
Bachelor of Technology in Computer Science and Engineering

Raipur, Chhattisgarh, India
2021-2025

EXPERIENCE

Coding Mentor – Code for Community Club

Apr 2023 – May 2023

- Mentored 20+ beginners during the “30 Days of Code” challenge. Guided them through daily coding tasks, reviewed their submissions, and facilitated peer-learning sessions to strengthen programming fundamentals.

Learning & Research

- Self-driven exploration of large language models (LLMs) with a focus on natural language processing (NLP) tasks such as text generation and document query systems, coding challenge

PROJECTS

One Step Solution for farmers ([Live](#)) || *Html, CSS, Js, Firebase, Tailwind*

- Engaged with a team to design and develop a comprehensive agricultural web platform connecting farmers with experts, facilitating crop and seed sales, and delivering diverse farming news and a thriving community section

WebWisdom ([Live](#)) || *React-js, javascript*

- Developed a robust web application utilizing React.js, leveraging cutting-edge front-end technologies to create an engaging and user-friendly digital experience.

QueryDocs || *Streamlit, Langchain, RAG Fusion, Ollama (Mistral), Chroma DB*

- Collaborated with a team to develop an intelligent PDF query system, leveraging Retrieval-Augmented Generation (RAG) with Ollama’s Mistral model and the Langchain framework to enhance response accuracy and minimize hallucinations.

Oil Spill Detection || *Python, YOLO, SNAP Tool, Sentinel-1 Dataset*

- Collaborated on a system to detect and distinguish oil spills from look-alike objects using AIS anomalies and Sentinel-1 data. Applied Isolation Forest for anomaly detection, SNAP for satellite image processing, and YOLO for real-time object detection, enabling efficient identification of oil spills and triggering real-time alerts, thereby enhancing response efficiency and maritime safety

TECHNICAL SKILLS

- Languages: C/C++, JavaScript, HTML, CSS, Python
- Frameworks: React-js, Express-js, Bootstrap, Tailwind CSS, Flask

ACHIEVEMENT

- Participated in a National-level Hackathon focused on developing solutions for sustainable agriculture.
- Secured 3rd position in state level Hackathon
- Secured 2nd position in an Intracollege level Hackathon

POSITION OF RESPONSIBILITY / VOLUNTEERING EXPERIENCE

- Operation Co-lead, Code For Community Club(CFC)