

ANISHA BIRLA

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Education

Kalinga Institute of Industrial Technology

May 2025

Btech in Computer Science

Bhubaneswar, Odisha

- **Relevant Coursework:** Data Structures and Algorithms (C++), Object-Oriented Programming, Software Engineering Principles, Database Management Systems, Web Development, Software Engineering Principles, Operating Systems, Software Development Methodologies, C, Computer Networks, Cloud Computing, Software Project Management

Experience

Khetibaari

May 2023 – Jun 2023

Web Developer

- Coordinated with a cross-functional team to implement a secure transaction system on Khetibaari; the system has processed over 1,500 successful transactions, reducing dependency on middlemen for farmers.

NConnect

Jan 2023 – May 2023

Web Developer

- Developed a robust animal rescue platform, NConnect, resulting in a 40% reduction in operational inefficiencies; integrated real-time data tracking features that enhanced case management for **300+ rescue volunteers**.
- **Integrated Advanced Features:** Devised Twilio's Messaging API for real-time communication and Axios for seamless API requests, resulting in a 40% reduction in treatment time.

Projects

MedWise | React Js, Node Js, Express Js, MongoDB, CSS, Bcrypt, Axios

[Mern_hospital_website](#)

- Generated a robust MERN stack hospital website featuring online appointment scheduling and seamless email integration; improved patient booking efficiency by **40% and analyzed user engagement** through intuitive **React components**.
- Implemented **MongoDB** for data management, resulting in a 30% increase in data retrieval speed and enhancing the security of over 10,000 patient records while ensuring compliance with healthcare regulations.
- **Enhanced User Experience:** Spearheaded the development of a responsive backend infrastructure using Express.js, achieved a 40% reduction in load times, leading to improved user satisfaction across hospital visitors.

WhatsUp | Javascript, Node JS, Express JS, Socket.io, Html, CSS

[WhasUp_project](#)

- Implemented a real-time messaging platform that facilitated instant communication among users, leveraging **HTML, CSS, and JavaScript** along with **Vue.js**, resulting in a 25% increase in user engagement within the first month.
- Designed a real-time chat feature using **WebSocket.io** enhancing user engagement and reducing response time by 20%.
- Crafted a visually appealing user interface using **Vue.js** that maintained a consistent look and feel across platforms; this project was adopted by 12 teams, improving collaboration and design standards across the organization.

Real-Time Traffic Density Estimation with YOLOv8 | Python, YOLOv8, NumPy, Pandas, Matplotlib, PyTorch

[Yolo_ML_project](#)

- Developed rigorous validation techniques throughout the project lifecycle; achieved a significant reduction in **false positives by 30%**, leading to improved operational efficiency for traffic management systems.
- **Fine-tuned YOLOv8** architecture to achieve a 95% accuracy rate in vehicle detection across streaming video feeds. created real-time processing capabilities, resulting in a 30% reduction in detection latency.
- Optimized Data Pipeline: Streamlined data preprocessing and annotation workflows, improving model training efficiency and reducing overall system resource consumption by 25%.

Technical and Soft Skills

Programming Languages: C++, HTML, CSS, JavaScript, Java

Data Structures: Arrays, Stack, Queue, Heap, Linked list, Tree, Graph, etc

Backend: Django, Node.js, Express.js

Frontend: React, TailwindCSS, HTML, CSS, Bootstrap

Clouds & Databases: AWS, SQL, MongoDB

Web Technologies: Docker, Socket.IO, Redis

Developer Tools: Postman, VS Code, GitHub

Achievements and Hackathons

- **250+ DSA problems** on coding platforms like **Leetcode, Gfg, CodingNinja**, building problem solving skills.
- Shortlisted in **top 30** for internal **Smart India Hackathon'23**
- Finalist in the **Hult Prize Hackathon'22**.
- Advance to the **second round** of InnoHacks'23 hackathon

Profile Links

leetcode.com/Anishatycon github.com/Anisha2123