ALKESH SHUKLA

📱 +91-9569779290 ✉ shuklalkesh@gmail.com in www.linkedin.com/in/alkesh-shukla ⬡ https://github.com/shuklaAlkesh

</> LeetCode 👑 Geeks for Geeks 🌐 AlkeshXperience Portfolio

Education

Indian Institute of Information Technology Sri City   Chittoor, Andhra Pradesh
*B.Tech in Electronics and Communication Engineering. **Current CGPA: 8.26***   *Dec 2021 - Jul 2025*

Experience

Bitezy (Tech Stack: ReactJs, Tailwind CSS, NodeJs, Socket.io)   Aug 2024 – Oct 2024
Software Developer   *Remote*
- **Built Scalable Multi-Client Platform:** Developed responsive multi-user web apps using ReactJS, Node.js, and Tailwind CSS, and optimized APIs to improve performance by 20% for 500+ users.
- **Enabled Real-Time Order Tracking:** Implemented Socket.io to deliver live order status updates, enhancing user experience and operational efficiency, facilitated 700+ successful deliveries and helped generate 3 Lakh+ in revenue.

Hindustan Aeronautics Limited (Tech Stack: C++, Python)   Jun 2023 - Aug 2023
Software Engineer Intern   *Onsite*
- **Optimized Assembly Workflows:** Developed tools to improve the efficiency and quality of SU 30K aircraft assembly.
- **Developed Aviation Models:** Created software models to simulate aviation systems like the Optolocator System (OLS) and UAVs, aiding in performance analysis and testing.

Projects

CDP Support Agent Chatbot ⬡   Full-Stack Development
Technologies: React | TypeScript | Express.js | PostgreSQL | Drizzle ORM | Tailwind CSS | Radix UI   *Feb 2025 - Present*
- **Conceived a Smart Chatbot Solution:** Built a real-time chatbot connected with 4 data platforms, improving customer satisfaction by 95% and reducing response time by 40%.
- **Constructed a Secure Backend System:** Created an API using Express.js and TypeScript with PostgreSQL, achieving 30% faster data retrieval and 99.99% data accuracy.
- **Designed an Accessible UI:** Crafted a responsive chat interface using React, Tailwind CSS, and Radix UI, delivering a seamless and inclusive user experience.

CharchaHub ⬡ ↗   MERN Stack
Technologies Used: HTML | CSS | JavaScript | Node.js | React.js | WebSockets | MongoDB | Vercel *Aug 2024 - Sep 2024*
- **Developed a Real-time Chat App:** Supported seamless group and personal messaging with real-time interactions.
- **Implemented Secure & Instant Messaging:** Configured JWT authentication for user security and WebSockets for real-time messaging.
- **Optimized Data Handling & Deployment:** Used MongoDB for scalable data storage, Zustand for efficient state handling, and Axios for optimized API calls. Deployed on Vercel for seamless hosting.

MRI-Based Brain Tumor Detection System ⬡   Pattern Recognition
Technologies Used: Python | ANN | CNN | SVM | Logistic Regression | MobileNetV2   *Sep 2023 - Dec 2023*
- **Built an AI-powered Tumor Detection Model:** Leveraged MobileNetV2 with ANN, achieving 90.2% accuracy, outperforming CNN, SVM, and Logistic Regression.
- **Optimized feature extraction and model performance:** Applied wavelet transforms, hyperparameter tuning, and pretrained model optimization for AI-driven diagnostics.

Skills Summary

Languages & Databases: C++, Python, JavaScript, TypeScript, SQL, MySQL, PostgreSQL, MongoDB.
Web & Frameworks: HTML, CSS, React, Redux, Node.js, Express.js, REST APIs
Coursework: Data Structures & Algorithms, OOPs, Operating Systems, DBMS, Computer Networks.
Tools & Technologies: Git, GitHub, Docker, Kubernetes, Linux, VS Code, Jupyter Notebook, Postman.
Soft Skills: Leadership, Problem-Solving, Analytical Thinking, Communication, Teamwork, Time Management.

Extracurricular Activities

- Elevated IOTA Club reach by conducting technical workshops as part of the Public Relations team at IIIT Sricity.
- Solved more than **900+** Data Structures and Algorithms Problems.
- Proposed a research paper on **Convergence of Molecular and terahertz communications in IoNT for the detection of infectious diseases** at IEEE, focusing on nanotechnology and terahertz for the early detection of diseases.