

# ALKESH SHUKLA

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AlkeshXperience Portfolio

## Education

**Indian Institute of Information Technology Sri City**  
*B.Tech in Electronics and Communication Engineering. CGPA: 8.22*

Chittoor, Andhra Pradesh  
December 2021 - July 2025

## Experience

### Lincode

May 2025 – Present

*Backend Developer Intern*

*Remote*

- Implemented and optimized **RESTful APIs** using **Python** and **Django**, reducing response time by 38% (from 72ms to 45ms) and enhancing reliability.
- Enhanced AI defect detection with **credit checks**, **GPU tracking** and **add-on credits**, reducing failure rate by 25%.
- Architected the **Super Admin Dashboard** and built **Analytics APIs** for inspection trends, defect patterns, heatmaps, and part/batch/camera-wise metrics, improving system visibility and optimizing model training speed by 20%.
- Designed scalable **report generation** using **Jinja2** for structured **CSV and PDF exports** from **100K+ records**.

### Bitezy

August 2024 – October 2024

*Software Developer Intern*

*Remote*

- Created a responsive food delivery app using **React.js** and **Node.js**, improving API speed by 20% for 5000+ users.
- Integrated real-time order tracking with **Socket.io** to support live status updates and ensure smooth delivery operations.

### Hindustan Aeronautics Limited

June 2023 – August 2023

*Software Engineer Intern*

*Korwa, Amethi, UP*

- Crafted **Python** tools to streamline SU-30K OLS system analysis and improve efficiency.
- Created simulation models for **OLS** and **UAVs** to support performance testing under real-time conditions.

## Projects

### Globetrotter

MERN Stack

*Tech Stack: React.js, Node.js, MongoDB, Express.js, JWT, Vite, Framer Motion*

*April 2025 – May 2025*

- Built a **full-stack travel quiz app** with **JWT auth**, **MongoDB**, real-time **scoring** and **social challenge sharing**.
- Constructed an interactive UI using **React** and **Framer Motion** and launched the application on **Vercel**.

### CDP Support Agent Chatbot

Full-Stack Development

*Tech Stack: Python, React.js, TypeScript, Express.js, PostgreSQL, Tailwind CSS*

*February 2025 – May 2025*

- Developed a high-performance backend using **Express.js** and **PostgreSQL**, enabling 30% faster data access.
- Deployed a real-time AI chatbot across **4 platforms**, boosting query speed by 40% and user experience.

### CharchaHub

MERN Stack

*Tech Stack: React.js, Node.js, MongoDB, WebSockets, Zustand, JWT, Axios, Vercel*

*August 2024 – September 2024*

- Designed a chat app with personal and group messaging using **WebSockets** for low-latency communication.
- Integrated **JWT** auth, role-based access control, and global state management using **Zustand** and hosted on **Vercel**.

### MRI-Based Brain Tumor Detection System

Pattern Recognition & AI

*Tech Stack: Python, MobileNetV2, ANN, CNN, SVM, Logistic Regression*

*September 2023 – December 2023*

- Developed an AI-based brain tumor classifier using **MobileNetV2** and **ANN**, achieving **90.2%** accuracy and outperforming traditional models like **CNN**, **SVM** and **Logistic Regression**.
- Enhanced diagnostic accuracy through wavelet-based feature extraction, **hyperparameter tuning** and pretrained model optimization for efficient medical image classification.

## Technical Skills

**Programming Languages:** C++, Python, JavaScript, TypeScript, SQL

**Databases:** MySQL, PostgreSQL, MongoDB

**Web & Frameworks:** HTML, CSS, Node.js, Express.js, React.js, Redux, Django, Jinja2, REST APIs

**Tools & Platforms:** Git, GitHub, Docker, Kubernetes, Linux, Postman, Jupyter Notebook

## Extracurricular Activities

- Solved **1000+** Data Structures and Algorithms problems on [LeetCode](#) and [Geeks for Geeks](#).
- 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 early disease detection.