ALKESH SHUKLA

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🌐 shuklaalkesh.github.io/Alkesh$_{p}$ortfolio/

Education

Indian Institute of Information Technology Sricity — Chittoor, Andhra Pradesh
B.Tech in Electronics and Communication Engineering; **Current CGPA: 8.26** — *Dec 2021 - Present*

St. Joseph International School, Jhalawar, Kota — Rajasthan, India
Higher Secondary Education (Class: 12th); **Percentage: 88.6** — *Mar 2019 - Jul 2020*

Experience

Hindustan Aeronautics Limited — Korwa, Uttar Pradesh
Summer Intern — *Jun 2023 - Jul 2023*

- Spearheaded critical contributions to SU 30K aircraft assembly and testing, gaining hands-on exposure to state-of-the-art aviation technologies, particularly within the Optolocator system (OLS) and Unmanned Aerial Vehicles (UAVs) domains.

- Enhanced aircraft performance standards through precision assembly techniques, under the mentorship of industry experts. This experience enabled me to learn new technologies and ensure strict adherence to quality benchmarks.

Projects

CharchaHub ⓖ — MERN Stack
Personal Project — *Aug 2024 - Present*

- Designed CharchaHub, a responsive chat application with real-time communication, supporting both group and personal chats, designed to facilitate seamless interactions using React, Node.js, and Express.

- Integrated secure JWT authentication, encrypted messaging with WebSockets, and efficient file handling using Multer, allowing users to upload, download, and manage images and files easily.

- Utilized MongoDB for scalable data storage, Zustand for smooth state management and structured API calls with Axios, optimizing performance and enabling smooth user interactions across devices.

MRI-Based Brain Tumor Detection System ⓖ — Pattern Recognition
Course Project Supervisor: Dr.Anish Chand Turlapaty — *Sep 2023 - Dec 2023*

- Developed an innovative MRI-based Brain Tumor Detection System, leveraging pre-trained models like MobileNetV2 for enhanced medical image analysis.

- Integrated diverse machine learning models (ANN, CNN, SVM, Logistic Regression) to address challenges in decoding subtle details in brain tumor images, showcasing the dynamic nature of AI in healthcare.

- Applied wavelet transformations for precise brain tumor image analysis, emphasizing the evolving relationship between existing knowledge and algorithmic advancements.

Hospital Management System ⓖ — Object-Oriented Programming
Course Project Supervisor: Dr. Pavan Kumar BN — *Sep 2022 - Oct 2022*

- Constructed a highly efficient hospital management system in C++, integrating a real-time SQLite database to optimize administrative tasks and ensure secure data handling.

- Demonstrated exceptional project management skills by leading a collaborative project team, delivering ahead of schedule, and seamlessly integrating the software into hospital operations.

Extracurricular Activities

- Elevated IOTA Club's influence through strategic contributions in the Public Relations team at IIIT Sricity.

- Conducted technical workshops, promoting knowledge sharing and skill development among peers.

- Orchestrated cultural events that fostered diversity and inclusivity, while demonstrating teamwork and analytical skills in hackathons.

Skills Summary

Languages: Proficient in C++, Python, C, R-programming,SQL, MySQL, SQLite3, MongoDB
Web Development: HTML5, CSS, JavaScript, Node.js, Express.js, React.js
Machine Learning & Deep Learning: TensorFlow, PyTorch, scikit-learn, Keras

Certifications

- Successfully completed *The Complete 2023 Web Development Bootcamp* on Udemy. **View Certificate**