

ALKESH SHUKLA

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🌐 shuklaalkesh.github.io/Alkesh_portfolio/

Education

Indian Institute of Information Technology Sricity

B.Tech in Electronics and Communication Engineering; Current CGPA: 8.2

St. Joseph International School, Jhalawar, Kota

Higher Secondary Education (Class: 12th); Percentage: 88.6

Chittoor, Andhra Pradesh

Dec 2021 - Present

Rajasthan, India

Mar 2019 - Jul 2020

Experience

Hindustan Aeronautics Limited

Summer Intern

Korwa, Uttar Pradesh

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.
- Elevated aircraft performance standards through precision assembly techniques, ensuring adherence to rigorous quality benchmarks.

Projects

MRI-Based Brain Tumor Detection System 🧠

Course Project Supervisor: Dr. Anish Chand Turlapaty

Pattern Recognition Project

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 Software 🏥

Course Project Supervisor: Dr. Pavan Kumar BN

Object-Oriented Programming Project

Sep 2022 - Oct 2022

- Engineered 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.

Color Sorting Machine 🎨

Course Project Supervisor: Dr. Raja Vara Prasad

Embedded Systems Project

Sep 2022 - Nov 2022

- Devised and implemented an advanced color sorting machine for food manufacturing, enhancing product quality. Incorporated high-precision sensors for accurate color detection, object counting, and weight measurement.
- Developed efficient embedded C code, ensuring reliable sorting performance, and created a user-friendly mobile application for real-time monitoring, improving user interaction. Collaborated with cross-functional teams to seamlessly integrate hardware and software components, conducting rigorous testing.

Extracurricular Activities

- Elevated IOTA Club's influence through impactful contributions in the Public Relations team at IIIT Sricity.
- Conducted technical workshops to facilitate knowledge sharing and skill development.
- Orchestrated cultural events fostering diversity and inclusivity, showcasing analytical and teamwork prowess in hackathons.

Skills Summary

Languages: Proficient in C++, Python, C, R-programming, SQL, MySQL, SQLite3

Web Development: HTML5, CSS, JavaScript, Node.js, Express.js, React.js

Machine Learning & Deep Learning: TensorFlow, PyTorch, scikit-learn, Keras

Tools: Visual Studio Code, Ubuntu, Jupyter Notebook, MATLAB, LTspice, Eagle Autodesk

Honors and Awards

- Achieved 2nd place in a challenging Badminton tournament hosted at Hindustan Aeronautics Limited Korwa, demonstrating outstanding sportsmanship and skill.