

ALKESH SHUKLA

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Education

Indian Institute of Information Technology Sricity

B.Tech in Electronics and Communication Engineering; Current CGPA: 8.26

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.
- 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

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.