

Adithya Sakthimani

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Location: Bengaluru

EXPERIENCE

Dyu Labs, Bangalore — *Embedded Systems Engineer Intern*

08/2024 – Present

- Participated in workshops and presentations focused on IoT solutions.
 - Contributed to building and implementing a water level measurement system to gain hands-on experience.
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PROJECTS

Smart Fitness Tracker AI (Elevate Fitness AI)

Developed a comprehensive fitness tracking system leveraging OpenCV for real-time pose estimation to ensure proper exercise form and track repetitions.

- Leveraged OpenCV for real-time pose estimation to ensure proper exercise form and track repetitions.
- Integrated sensors like MAX30100 and MPU 6050 for heart rate monitoring, calorie tracking, and workout analytics using Embedded C.
- Developed a user-friendly web interface with React, Node.js, and Express, supported by a MongoDB database for goal tracking and progress visualization.
- [GitHub Repository](#)

Skin Disease Detection AI (Derma Doc AI)

Developed an AI-powered platform trained on a dataset of skin diseases and images to accurately diagnose conditions.

- Built a TensorFlow-based model trained on a dataset of skin diseases for precise image analysis.
- Integrated Lepton LLM for natural language processing, enabling interactive and intuitive user experiences.
- Designed with React frontend and Flask/Express backend, coupled with MongoDB for real-time data handling and feedback.
- [GitHub Repository](#)

Implementation of Data Transmission using Encryption and Steganography

Developed a secure image steganography platform that embeds hidden messages in images, using Huffman Tree for efficient text encryption.

- Implemented Huffman Tree for text encryption and Discrete Wavelet Transform (DWT) for data embedding, ensuring data security and image quality.
 - Developed an intuitive frontend with Vite for seamless user interaction.
 - [GitHub Repository](#)
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EDUCATION

RV College of Engineering, Bangalore — *Electronics and Telecommunication*

09/2023 – Present

- Current CGPA (End of Second Semester): 8.83

St. Ann's Public School, Kochi

06/2021 – 06/2023

- Scored 92.6 % in 12 th CBSE Boards in PCM and 91.8 % overall
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SKILLS

Programming Languages:

C, C++, JavaScript, Python, Embedded C, HTML, CSS, Verilog

Web Development:

React, Node.js, Next.js, Flask, Express

Tools and Technologies:

Git, MongoDB, VS Code, MATLAB, OrCAD PSpice, LTspice

EXTRACURRICULAR ACHIEVEMENTS

- Won 2nd Place by representing RVCE at VTU Interzonals and Zonals Chess tournaments.
- Selected for VTU Nationals Team and Represented Kerala at Nation Chess tournament in Nashik.