

NITHIN RAVI

• Email: 23nithinravi2003@gmail.com • Ph: +919944665408 • [GitHub](#) • [Portfolio](#) • [Linkedin](#)

EDUCATION

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|---|-------------------|
| Amrita Vishwa Vidyapeetham - (2021-2025) | Coimbatore, India |
| B.Tech in Electronics and Communication Engineering (ECE) | 8.13/10 |
| GD Matriculation Higher Secondary School - (2019-2021) | Coimbatore, India |
| Class XII | 95.05% |
| Bharatiya Vidya Bhavan MHSS - (till 2019) | Coimbatore, India |
| Class X | 94.6% |

TECHNICAL SKILLS

Programming Languages: C, Python, SQL

Frontend: HTML, CSS, Tailwind CSS, JavaScript, ReactJS, Redux

Backend and Databases: Express.js, Node.js, Flask, MongoDB, MySQL

Microcontrollers: Raspberry Pi Pico, ESP32, Arduino, LPC2148

Deep Learning Frameworks: Tensorflow, Open-CV, Keras, Scikit Learn, Huggingface.js

Tools: Git, Github, Linux, VS Code, Jupyter Notebook, Pycharm, Eclipse, Postman, Figma

EXPERIENCE

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|---|---------------------|
| Embedded Machine Learning Intern at IIT, Palakkad - SATCARD | Jun 2024 – Aug 2024 |
| Tech Stack and skills : MicroPython, Python, scikit-learn, Embedded Systems and Sensors | |
| <ul style="list-style-type: none">Developed a solar-powered agricultural monitor with a Raspberry Pi Pico, sensors, OLED display, and SD card for real-time data, using a 6V solar panel and 10,000mAh battery for durability.Collected real-time data, used Machine learning models to predict future values for caution, and transmitted the data via a Bluetooth module to a mobile phone for monitoring. | |

PROJECTS

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|---|---------------------|
| DevHub – EdTech application - Link | Feb 2025 – Current |
| Tech Stack: MERN (MongoDB, Express.js, React.js, Node.js), Tailwind CSS, Stripe | |
| <ul style="list-style-type: none">A platform for developers to learn advanced courses with chapter-wise quizzes, progress tracking, and certification. Users can engage by commenting, upvoting, and sharing, while logged-in members can chat in real time. Added an admin dashboard to add courses, manage chats, and oversee discussions, with secure payments through Stripe. | |
| Smart-Shelf : AI-powered Retail Product Detection and Inventory Management - Link | Oct 2024 – Dec 2024 |
| Tech Stack: Python, Tensorflow, OpenCV, Flask, Reactjs, Nodejs, MongoDB | |
| <ul style="list-style-type: none">MERN-based web app with a Flask backend, where users select custom-trained deep learning models (ResNet50, MobileNetV2, DenseNet169) to classify images. Node.js handles requests and forwards them to the Flask API, which processes images and returns predictions to the front end. Also have deployed in esp32-cam module for edge Tasks. | |
| Multilingual Audio Transcriber and Translator App - Link | Jan-2025 – Jan-2025 |
| Tech Stack: React.js, TailwindCSS, OpenAI Whisper, huggingface.js | |
| <ul style="list-style-type: none">Developed a React-based web app that transcribes audio (file/live) to text using OpenAI Whisper, enabling users to copy or download transcriptions.Integrated Hugging Face.js for real-time translation of transcribed text into multiple languages, with Tailwind CSS for UI styling. | |
| Fullstack E-commerce app for Handcrafts Business - Link | Sep 2024 – Nov 2024 |
| Tech Stack: MERN(MongoDB, Expressjs, Reactjs, Nodejs), TailwindCSS, Stripe ,Whatsapp api | |
| <ul style="list-style-type: none">Scalable e-commerce app with dynamic product page and a filtering products feature, secure authentication, profile updates, and rendering top related items for each product for user engagement with the business.Added a robust admin dashboard for order tracking and product management. Integrated Stripe payments and also a WhatsApp API enquiry system that sends customizable messages directly to the business point of contact. | |

ACHIEVEMENTS AND PARTICIPATIONS:

Solved 250+ problems across various platforms like Leetcode, GeeksforGeeks

[Profile](#)

Tech Workshop - (IIT-Madras) – Participated in 5-day ML, AI, Computer Vision Bootcamp

Project Workshop – (IIT – Palakkad, SATCARD) – Developed a mini Project based on Motion Detection with MPU6050 sensors.

CERTIFICATIONS

Developing Front-End Applications with React (provided by Coursera – IBM)

[Certificate](#)

AWS – Introduction to Cloud Sem 1 and Sem 2 (provided by AWS Academy)

[Certificate](#)