NITHIN RAVI

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EDUCATION

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
Backend and Databases: Express.js, Node.js, Flask, MongoDB, MySQL
Deep Learning Frameworks: Tensorflow, Open-CV, Keras, Scikit Learn.
Tools: Git, Github, Linux, VS Code, Jupyter Notebook, Pycharm

EXPERIENCE

Embedded Machine Learning Intern at IIT, Palakkad - SATCARD   Jun 2024 – Aug 2024 Tech Stack and skills : MicroPython, Python, scikit-learn, Embedded Systems and Sensors

- 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 and used Machine learning models to predict the future values for caution and transmitted the data via a Bluetooth module to a mobile phone for monitoring.

PROJECTS

DevHub – EdTech application - Link   **Feb 2025 – Current**
   Tech Stack: **MERN (MongoDB, Express.js, React.js, Node.js), Tailwind CSS, Stripe**

- 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   **Oct 2024 – Dec 2024**
   Tech Stack: **Python, Tensorflow, OpenCV, Flask, Reactjs, Nodejs, MongoDB**

- 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.

Multilingual Audio Transcriber and Translator App - Link   **Jan-2025 – Jan-2025**
   Tech Stack: **React.js, TailwindCSS, OpenAI Whisper, huggingface.js**

- 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   **Sep 2024 – Oct 2024**
   Tech Stack: **MERN(MongoDB, Expressjs, Reactjs, Nodejs), TailwindCSS, Stripe ,Whatsapp api**

- Scalable e-commerce app with dynamic product page with 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 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