

# NITHIN RAVI

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[LinkedIn](#) | [GitHub](#) | [My-Portfolio](#) | [LeetCode](#)

## EDUCATION

<b>Amrita Vishwa Vidyapeetham</b> B.Tech Electronics and Communication Engineering   <b>CGPA: 8.16/10</b> <b>GD Matriculation Higher Secondary School</b> HSC – Mathematics, Computer Science:   <b>Percentage: 95.05%</b>	Coimbatore, India <b>July 2021 - July 2025</b> Coimbatore, India <b>June 2019 - May 2021</b>
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## SKILLS SUMMARY

- **Languages:** Python, C, SQL, Java
- **Frontend:** HTML, CSS, JavaScript, React.js, Tailwind CSS, Redux
- **Backend:** Express.js, Node.js, Flask, MongoDB, MySQL, Chroma DB
- **DL Frameworks:** TensorFlow, OpenCV, Keras, Scikit-learn, HuggingFace.js
- **Tools:** Git, GitHub, Linux, Figma, Postman, VS Code, PyCharm, Jupyter
- **Course-Work:** OOPS, DBMS, Networks, OS, Data Structures, Cloud (AWS), ML, DL, Computer Vision, Embedded Systems

## EXPERIENCE

<b>TCS – ASSISTANT SYSTEM ENGINEER</b> <ul style="list-style-type: none"><li>◦ <b>Tech Stack and skills:</b> Java, HTML, CSS, JavaScript, Unix, SQL</li><li>◦ Currently undergoing SAP Technical and functional training in the TCS SAP business unit.</li></ul>	<b>Sep 2025- Present</b>
<b>EMBEDDED MACHINE LEARNING INTERN (IIT-Palakkad)</b> <ul style="list-style-type: none"><li>◦ <b>Tech Stack and skills:</b> Micro Python, Python, scikit-learn, Embedded Systems</li><li>◦ Designed and built a solar-powered agricultural monitoring system using Raspberry Pi Pico, sensors, OLED, and an SD card for real-time data logging, powered by a 6V panel and a 10,000mAh battery.</li><li>◦ Collected real-time data, used Machine Learning models to predict the future values for caution, and transmitted data via Bluetooth module to a mobile phone for monitoring.</li></ul>	<b>May 2024- July 2024</b>

## PROJECTS

<b>DrMeet: Full-stack Doctor Appointment Booking System   <a href="#">LINK</a></b> <ul style="list-style-type: none"><li>◦ <b>Tech Stack:</b> MERN (MongoDB, Express.js, React.js, Node.js), Tailwind CSS, Stripe</li><li>◦ Developed a Doctor Appointment Booking System with role-based authentication for Patients, Doctors, and Admin. Implemented features like user registration/login, appointment booking, doctor dashboards (earnings, profile updates), and an admin panel for managing users and appointments.</li><li>◦ Integrated online payment gateway for appointment fees, built a responsive UI with React, and ensured secure backend operations with Express.js and MongoDB. Fully customizable and suitable for real-world healthcare or clinic use cases.</li></ul>	<b>March 2025 – May 2025</b>
<b>Cold Email generator for Job applications using LLM</b> <ul style="list-style-type: none"><li>◦ <b>Tech Stack:</b> Python, LangChain, GroqCloud, ChromaDB, LLaMma 3.1</li><li>◦ The tool extracts job listings from a company’s career page URL and generates personalized cold emails based on the job descriptions. It integrates portfolio links from a vector database, tailoring the content to the specific job.</li><li>◦ Job listings from the website are scraped and converted to JSON, matched with employee portfolios via Chroma DB by semantic search, and Llama 3.1 generates outreach emails using the matched portfolios and skills.</li></ul>	<b>Dec 2023- Feb 2024</b>
<b>Smart Shelf: Deep Learning-Based Retail Product Monitoring   <a href="#">LINK</a></b> <ul style="list-style-type: none"><li>◦ <b>Tech Stack:</b> Python, TensorFlow, OpenCV, Flask, React.js, Node.js, MongoDB</li><li>◦ MERN-based web app with a Flask backend, where users select custom-trained deep learning models (ResNet50, MobileNetV2, DenseNet169) to classify images.</li><li>◦ Node.js handles requests and forwards the images to the Flask API from the frontend, which processes images and returns predictions to the frontend.</li></ul>	<b>Sep 2023- Nov 2023</b>
<b>Multilingual Audio Transcriber and Translator App   <a href="#">LINK</a></b> <ul style="list-style-type: none"><li>◦ <b>Tech Stack:</b> React.js, Tailwind CSS, OpenAI Whisper, huggingface.js</li><li>◦ Developed a React-based web app that transcribes audio (file/live) to text using OpenAI Whisper, enabling users to copy or download transcriptions.</li><li>◦ Integrated Hugging Face.js for real-time translation of transcribed text into multiple languages, with Tailwind CSS for UI styling</li></ul>	<b>July 2023- Sep 2023</b>

## CERTIFICATES

React Frontend Development	- (Provided by Coursera – IBM)	January 2025
NodeJS Backend Development	- (Provided by Coursera – IBM)	March 2025
Introduction to AWS Cloud	- (Provided by AWS Academy)	September 2024
Machine Learning Masterclass	- (Provided by Deep Learning Academy)	October 2024
Python Programming	- (Provided by Coursera)	November 2023