RAJENDRAN S

→ +91 9500365553 🖾 rajendran.stech@gmail.com 🛅 LinkedIn 🜎 Github 🌾 LeetCode 🌐 Portfolio

Education

Coimbatore Institute of Technology, Coimbatore

B. Tech in Artificial Intelligence & Data Science

Green Valley Matriculation Higher Secondary School, Hosur

HSC, Computer Science **Experience**

Research Intern - Smart City Lab, Telkom University (May 2025 - Present)

- Conducted in-depth research and model development for the "Waste Object Detection" project focused on identifying and classifying various waste materials using computer vision techniques.
- Designed and trained four deep learning models YOLOv10, YOLOv11, YOLOv12 for object detection, achieving SoTA results of **95.2%** by performing improvements through iterative experimentation and hyperparameter tuning.

Projects

Respio – Pulmonary Disease Detection (August 2024)

- * Developed an AI-based application for detecting pulmonary infections in food processing industry workers using respiratory audio analysis.
- * Implemented a deep learning model combining CNN and GRU for accurate disease classification.

TinyToes - AI based Baby Wellness and Parenting Assistant (February 2025)

- * Web platform designed to help parents understand and care for their babies using advanced AI technology.
- * Offers features such as baby cry analysis, milestone tracking, expert consultations, and a nanny booking service to provide seamless support to parents.

Certifications

Designing Machine Learning Applications for Embedded Systems	${\bf August \ 2024}$
DigiToad Technologies	
Building Large Language Models (LLM) for Generative AI	March 2024
PSG College of Technology	
Python for Data Science	Dec 2023
IBM	

Events & Achievements

- * First Place in E-Week (Ideathon) at GR Damodaran Academy of Management for presenting a piezoelectric-based smart city idea.
- * First Place in Ideathon at the Dept of Humanities & Chemistry, CIT for pitching LearnARly, an application incorporating Augmented Reality in Education idea.
- * First Place in a Project Expo at Virtus Codicis at Sri Eshwar College of Engineering
- * Second Place in Googleathon (Hackathon) by GDSC Club for a Respiratory Disease Detection idea in Food Processing Industries.
- * First Place in Perpetual Fest'24, an IoT based Project Expo at CIT.
- * Third Place in HackerRush (AI&ML Hackathon) by WEC in CIT.
- * Published article "Ethical Enigma of AI" and won "The Best Content" award in Pixel magazine, Dept of AI & DS, CIT.

Roles and Responsibilities Held

- * Joint Secretary, AI & DS Association, Coimbatore Institute of Technology (April 2024 April 2025)
- * Joint Secretary, Entrepreneurship Development Cell, Coimbatore Institute of Technology (August 2024 Present)
- * Technical Lead, FOSS, Coimbatore Institute of Technology (May 2025 Present)
- * Student Coordinator, Institution Innovation Council, Coimbatore Institute of Technology (February 2023 Present)

Skills

Languages: Java, Python, C, R, C++ Frontend: HTML, CSS, Bootstrap, Javascript Databases: MySQL, MongoDB Frameworks: Django, React, Next JS, TypeScript **2023 - 2027** 9.74 /10 CGPA

> **2021 - 2023** 97.2 / 100

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Source Code

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