RAJENDRAN S

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Education

Coimbatore Institute of Technology, Coimbatore   **2023 - 2027**
B.Tech in Artificial Intelligence & Data Science   *9.74 /10 CGPA*

Green Valley Matriculation Higher Secondary School, Hosur   **2021 - 2023**
HSC, Computer Science   *97.2 / 100*

Projects

Respio – Pulmonary Disease Detection (August 2024)   <u>**Source Code**</u>
- 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)   <u>**Source Code**</u>
- 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.

EduConnect – Educational Platform for Government Schools (April 2025)   <u>**Source Code**</u>
- Designed a full-stack web platform with features like virtual lab assistants, career guidance, resource sharing, and attendance visualization.
- Enabled students to book events, access study materials, and engage in discussions, improving digital learning in under-resourced schools.

Certifications

Designing Machine Learning Applications for Embedded Systems   **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
Frontend: HTML, CSS, Bootstrap, Javascript, React
Databases: MySQL, MongoDB
Frameworks: Django