

Challa Sainadha Reddy

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EDUCATION

RV College of Engineering

Information Science and Engineering (ISE), CGPA: 9.52

Bangalore

2023 – 2027

TECHNICAL SKILLS

Languages: C/C++, Python, SQL, JavaScript, HTML/CSS

Frameworks / Tools: React.js, Next.js, Supabase, Arduino

Libraries: YOLOv8, OpenCV, DeepFace, pandas, NumPy, Matplotlib, Dlib

Developer Tools: Git, VS Code, PyCharm, Postman, Roboflow

PROJECTS

Automated Waste Segregation using Image Processing

Jan 2024 – Apr 2024

- Built a YOLOv8-powered system to classify and segregate waste with **90% accuracy** into biodegradable and non-biodegradable categories.
- Integrated **Arduino** and servo motors for real-time automated sorting, achieving **50% faster** processing and **30% reduction in manual labor**.
- Developed a functional prototype using **Python**, **OpenCV**, and Jupyter Notebook.

AI-Based Facial Recognition Attendance System

Feb 2025 – May 2025

- Automated classroom attendance using **YOLOv8** for detection and **DeepFace** for recognition with **92% accuracy**.
- Built a responsive interface with **Next.js**, and used **Supabase** for secure backend integration and attendance logging.
- Implemented preprocessing and face alignment with **Dlib** to handle occlusions and poor lighting conditions.

EcoTrack – IoT Platform for Sustainability Monitoring

Jan 2025 – Apr 2025

- Designed an IoT-enabled platform to track energy, water, and carbon emissions, promoting sustainable habits through gamification.
- Built real-time dashboards with **Next.js** and used **Supabase** for authentication and data storage.
- Enabled user engagement through points, badges, leaderboards, and a donation platform linked to environmental impact.

ACHIEVEMENTS

- Solved **200+ problems** across LeetCode and GeeksforGeeks, focusing on data structures and algorithms.
- Achieved a **LeetCode rating of 1617**, actively improving problem-solving skills in Python and C++.
- Secured **Runner-Up position** in an IPL Data Analysis Hackathon at RV College, using Python, pandas, and Matplotlib for analysis and visualization.

CERTIFICATIONS

- **Supervised Machine Learning: Regression and Classification** – Coursera (Andrew Ng) Jan 2025 — Grade: 100%
- **Data Science for Engineers** – NPTEL, IIT Madras Score: 84% (Elite Certificate)