DADAM RISHIKESH REDDY

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EDUCATION

RV College of Engineering   Banglore, India
B.E in Computer Science & Engineering **CGPA:9.37**   **September 2022 - August 2026**
Sri Chaitanya Junior College   Vijayawada, India
Pre-University MPC **Percentage:97.6%**   **June 2020 - July 2022**

EXPERIENCE

Real-Time Driver Monitoring System|Dept. of Computer Science   **August 24- November 24**

- Engineered a detection system with **MediaPipe** and **YOLOv8** to identify driver drowsiness, yawning, and phone usage during the trip.
- Built a dual-interface website delivering live alerts to drivers and detailed trip reports to fleet owners.
- Achieved over **90% accuracy**, mitigating accident risks and enhancing overall fleet safety.

PROJECTS

Stock Market Management System | LINK   **October 24- February 25**

- Built an admin-user platform with company/user management, stock tracking, real-time prices, and news via **web scraping**.
- Simulated deposits, withdrawals, stock trading, and downloadable transaction reports.
- Improved User assistance with an AI-powered **query master** using **LLaMA 3-70B** that acts as a query assistant, generating backend queries for user-specific data like balance, transactions, and stock insights.
- **Tools Used:** ReactJS,Node.js,ExpressJS,Chart.js,Puppeteer,PostgreSQL.

Recipee Master| LINK   **June 24- October 24**

- Created a recipe platform featuring over **100,000** dishes, with functionalities for bookmarking, adding and storing entries.
- Implemented dynamic ingredient adjustment based on the number of people using **MVC architecture.**
- **Tools Used:** HTML,CSS,JavaScript

SignBridge AI| LINK   **January 25- March 25**

- Developed a real-time Sign Language recognition system that converts hand gestures to text and speech using webcam input, alphabet classification, word suggestions, and **multilingual** text output.
- Enabled text/voice-to-sign language video generation with MP4 downloads and built an **AI chatbot (Groq LLM)** that responds with sign videos to support deaf and mute users.
- Attained **97–99% accuracy** using an 8-class CNN and MediaPipe, with added spelling and grammar correction for cleaner output.
- **Tools Used:** MediaPipe, OpenCV, TensorFlow/Keras, Streamlit, MongoDB

PUBLICATIONS

Predictive Analytics for Milk Quality using Random Forest (RF) Algorithm| LINK   **July 24- November 2024**

- Published a peer-reviewed research paper on a machine learning-powered web application for real-time milk quality assessment using chemical and physical parameters; achieved **95%+ accuracy**..
- Presented at **IEEE CSITSS 2024,** showcasing applied AI/ML techniques in the domain of **food quality monitoring and safety**.

SKILLS

- **Programming Languages :** C,C++,JavaScript
- **Tech Stack/Databases   :** HTML, CSS, React.js, Node.js,SQL,MongoDB
- **Coursework   :** Operating Systems(OS), DBMS, Data Structures and Algorithms(DSA), OOPS,System Design

ACHIEVEMENTS

- Represented **Jawahar Navodaya Vidyalaya** at the **regional level** in badminton.
- Earned **Gold Certifications** in NPTEL **Data Science for Engineers** (Oct 2024) and **Edge Computing** (Feb 2025), ranking in the **top 1%** in both courses.

SOCIETIES

Frequency Club of RVCE   **March 2024-Present**
Member

- Organized and led a mini-event on Full Stack Development as a tech club member, engaging over **200 students** and increasing interest in web development by **30%** through interactive sessions.

Rotaract Club of RVCE   **April 2024-Present**
Organizer

- Coordinated **Paper Drive-2024** (100+ participants) and **Blood Donation Camp-2024** (150+ donors), increased participation by **20%** compared to previous years.