Murali Paila

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EDUCATION

Gayatri Vidya Parishad College of Engineering (A) Visakhapatnam
B.Tech in Information Technology • CGPA: 8.5/10 *June 2022 – Present*

- Core Coursework: Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Database Management Systems (DBMS), Operating Systems, Computer Networks.

SKILLS

Languages: Python, C, HTML, CSS, JavaScript
Frameworks: Reactjs, Nodejs, Expressjs, Streamlit
Tools: Git, GitHub, Postman
Platforms: Pipecat, OnRender, Agora AI, Sarvam STT
Database: MySQL, MongoDB, Postgresql

INTERNSHIP

Farm Vaidya AI Tech Pvt Ltd Visakhapatnam / Remote
Gen AI Engineer Intern *Dec 2025 – Present*

- Developed an agriculture chatbot using RAG, researching and integrating LightRAG, while collaborating with Agora AI and Sarvam for real-time workflows and STT.
- Built a full-stack dashboard to fetch Pipecat logs and visualize conversations with role-based access control.
- Maintaining and continuously improving the chatbot through daily monitoring, bug fixes, and production reliability enhancements.
- Participated in load testing, deployment support, and cross-team coordination to stabilize production releases.

CSIR-CRRI Delhi
Research Intern *Apr 2025 – May 2025*

- Built a real-time Road Safety Scoring System using YOLOX, ByteTrack, OpenCV, and Streamlit for dashcam video analysis.
- Conducted four weeks of research collaboration with senior scientists, IIT Delhi experts, and industry partners (including Palpi AI) to refine problem definition and system design.
- Implemented ROI-based filtering to improve object detection precision and safety analytics.
- Achieved 65–70% detection accuracy; performance limited by small training datasets.

PROJECTS

Counseling Forms

- Eliminated 100% paper-based submissions by digitizing the entire academic review process using MongoDB, Express, React, and Node.js.
- Developed a 1:1 digital replica of the physical counseling form used by faculty to review students' grades.
- Implemented scalable role-based access control with 3 distinct privilege levels (Super Admin, Admin, and User), allowing secure, time-bound access for users during faculty-defined windows.
- Automated student data management by extracting existing records from the database, enabling end-to-end counseling workflows without direct student input; solution proposed for college-wide adoption.

Sevak Dashboard Application

- Built a full-stack dashboard application to fetch chatbot session logs from Pipecat and visualize conversations with role-based access (master, superadmin, admin, user).
- Implemented secure multi-level authentication and authorization enabling granular control over agents, sessions, and summaries.
- Designed the dashboard architecture and optimized log-fetching pipelines to support real-time updates and production usage.
- Designed the dashboard architecture and optimized log-fetching pipelines supporting 300–400+ daily chatbot sessions across customers and agent workflows.

ACHIEVEMENTS

- Proposed a unique and creative solution during an **Infosys Springboard project internship**, contributing significantly to the final product's accuracy and overall team success.
- Top 2 finalist at *DTI Ideathon 2024* for developing an innovative platform using the MERN stack.
- Served as **Cybersecurity Lead** at *GDG GVPCE*; organized 3 cybersecurity awareness events to promote safe and responsible digital practices.