

# Murali Paila

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## EDUCATION

### Gayatri Vidya Parishad College of Engineering (A)

B.Tech in Information Technology • CGPA: 8.44/10

Visakhapatnam, India

June 2022 – Present

- Relevant Coursework: Machine Learning, Operating Systems, Computer Networks, Web Development, Cryptography, DBMS.

## EXPERIENCE

### CSIR-CRRI

Research Intern

Delhi, India

Apr 2025 – May 2025

- Built a real-time Road Safety Scoring System using YOLOX, OpenCV, and Streamlit.
- Implemented ROI filtering to improve detection precision and safety analytics.

### Infosys Springboard

AI/ML Intern

Remote, India

Jan 2025 – Apr 2025

- Engineered cheque automation pipeline with OCR and Python, reducing manual entry by 25%.
- Developed AI-powered form processing tool deployed via Streamlit.

### Open Forge, GVPCE

Technical Lead

Remote, India

Oct 2024 – Present

- Led agile-based full-stack development, improving sprint efficiency by 20%.
- Directed code reviews and maintained CI/CD pipelines using GitHub Actions.

### GDSC, GVPCE

Cybersecurity Lead

Visakhapatnam, India

Nov 2024 – Present

- Delivered interactive cybersecurity and blockchain sessions to 100+ students.
- Initiated capture-the-flag events to promote ethical hacking practices.

## PROJECTS

### Road Safety Scoring System

- Python-based system analyzing dashcam footage using YOLOX and ByteTrack for safety scoring.
- Achieved 65–70% accuracy; limited by small training datasets.

### Event RSVP (MERN & Java)

- Built RSVP system using MERN stack with token auth; alternate version using Java Servlets.

### Counseling Forms

- Digitized academic submissions with MongoDB, Express, React, and Node.js.

### Ask Me AI Chatbot

- Chatbot for PDF querying using Streamlit and Gemini API; 75% accurate, impacted by image content in PDFs.

### CheckMate

- Cheque validation app using Python, Streamlit, and Gemini API; detects, extracts, and stores data from PDFs.
- Achieved 80% accuracy through optimized prompt design and OCR handling.

## CERTIFICATIONS

- Cisco: CCNA, Python Essentials, Introduction to Cybersecurity
- NIT Rourkela: Deep Learning
- Coursera: Foundations of Cybersecurity
- Postman: API Fundamentals Student Expert
- NPTEL: Blockchain Technology

## SKILLS

**Languages:** Python, c, Java, C++, JavaScript, HTML5, CSS3

**Frameworks:** React.js, Node.js, Express.js, Django, Flask

**Tools:** Git, GitHub, Docker, Netlify, Streamlit, Postman

**Libraries:** NumPy, Pandas, TensorFlow, OpenCV

**Database:** MongoDB, MySQL, SQLite

## ACHIEVEMENTS

- Deployed real-time Road Safety Scoring System at CSIR-CRRI with YOLOX and OpenCV for traffic analytics.
- Top 2 finalist at DTI Ideathon 2024 for MERN innovation platform.
- Leading counseling digitization system; 60% backend/frontend complete in MERN.