

GUNJESH KUMAR

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EDUCATION

Gayatri Vidya Parishad College of Engineering

Visakhapatnam, India

B.Tech in Information Technology • CGPA: 7.91/10

June 2022 – Present

- Core Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, DBMS, OS, Computer Networks.

EXPERIENCE

CSIR - Central Road Research Institute

New Delhi, India

Research Intern - Computer Vision & Web Development

Apr 2025 – Present

- Built a microservice in Flask for Road Safety Index, serving REST API to frontend dashboards.
- Optimized video ingestion pipeline using multi-threaded OpenCV, reducing processing time by 35%.
- Implemented YOLOv8 detection modules in PyTorch, achieving 25 FPS inference for hazard alerts.
- Collaborated via Git, Jira, and Agile sprints, performing code reviews and mentoring interns.

Google Developer Student Club

Vizag, India

Cyber Security Lead

Oct 2024 – Present

- Led the Cybersecurity vertical at GDSC GVPCE, mentoring a team of 10+ student contributors and fostering a security-first mindset across tech communities.
- Collaborated with industry professionals to deliver expert-led sessions, increasing student participation by 40%.
- Designed interactive Capture The Flag (CTF) events and cybersecurity challenges, helping over 100 students gain practical skills in threat detection and response.

GirlScript Summer of Code

Remote

Open Source Contributor

May 2024 – Aug 2024

- Contributed to open-source projects by optimizing JavaScript code and reducing API latency by 20%.
- Developed unit tests using Jest and PyTest, achieving 85%+ code coverage across core modules.
- Collaborated with global contributors via GitHub, following CI/CD pipelines and open-source best practices.

PROJECTS

Counselling Forms Platform

GitHub

- Full-stack React/Node.js app, reducing form processing time by 60%.
- Implemented Socket.io for live mentor notifications and JWT for secure access.

Road Safety Index — AI-based Infrastructure Risk Scoring System

GitHub

- Developed object detection modules using **YOLOv8** in **PyTorch** to identify hazards such as potholes, lane violations, and pedestrian risk.
- Built a scalable backend service in Flask, integrating TensorFlow models to serve real-time predictions via RESTful APIs.

Personal Portfolio

Portfolio

- Built with React and Tailwind CSS; continuous deployment via Netlify.
- Features dynamic project gallery and integrated contact form with serverless backend.

CERTIFICATIONS

- GitHub Foundations
- CS50x (Harvard)
- Deep Learning Specialization (ISRO)
- Google Play Academy Store Listing
- Google Data Analytics

SKILLS

- **Programming:** C++, Python, JavaScript (Node.js, React)
- **Algorithms & DS:** Data structures, algorithm design, and complexity analysis
- **Frameworks:** Express.js, Flask, TensorFlow, PyTorch
- **Databases:** MongoDB, MySQL
- **Tools:** Git, Docker, AWS (EC2, S3), GitHub Actions
- **Practices:** RESTful API design, Microservices, Agile, Unit Testing

ACHIEVEMENTS

- **Solved 350+ LeetCode problems**, focusing on algorithms and system design challenges.
- **Top 50 Mentor** in GirlScript Summer of Code for code quality and leadership.
- **3-star** coder at GeeksforGeeks with consistent open-source contributions.