

GUNJESH KUMAR

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EDUCATION

Gayatri Vidya Parishad College of Engineering (A)

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

Visakhapatnam, India

June 2022 – Present

- Core Coursework: DSA, OOP, Software Engineering, DBMS, OS, Computer Networks, Wireless Sensor Networks, Cloud Computing

EXPERIENCE

Farm Vaidya AI Tech Pvt-Ltd

Software Engineering Intern

Visakhapatnam, India

August 2025 – Present

- Architected and maintained **distributed backend services** for large-scale audio data ingestion, ensuring high availability and fault tolerance across cloud instances.
- Engineered modular **Python microservices** for automated YouTube-to-dataset processing, cutting data pipeline execution time by **80%** and boosting reliability.
- Integrated and optimized **Gemini Pro APIs** for speech diarization and transcription, enabling code-mixed language support and improving API latency by **30%**.
- Implemented end-to-end monitoring, logging, and retry mechanisms using **Flask, GCP, and Docker**, streamlining debugging and deployment workflows across teams.

CSIR - Central Road Research Institute

Software Engineering Intern

New Delhi, India

April – May 2025

- Developed an AI-based road safety scoring system using **YOLOX + ByteTrack (PyTorch)** for real-time dashcam video analysis under occlusion.
- Built a **Flask microservice** delivering road safety scores within **200ms per frame**; worked closely with research scientists to align outputs with safety benchmarks.
- Led efforts to design a safety-scoring algorithm using **traffic density, TTC, and pedestrian proximity**; coordinated with a team of 3 engineers to optimize OpenCV pipeline with multithreading, improving throughput by **35%**.

PROJECTS

Counselling Forms Platform | React, Node.js, Express, Socket.io, JWT, MongoDB

GitHub

- Developed a full-stack student management system with **JWT authentication** and role-based access control (Admin/Mentor/Student).
- Added real-time features using **Socket.io**; reduced submission errors by **15%** via multi-step validated forms.
- Designed secure REST APIs handling **500+ daily submissions** with consistent MongoDB schema.

Road Safety Index Scoring System | Python, Flask, TensorFlow, PyTorch, YOLOX, Docker

GitHub

- Preprocessed road video datasets with frame extraction, normalization, and augmentation; trained custom **YOLOX** achieving **90% mAP**.
- Built a **Flask backend** exposing hazard detection and risk scores via REST endpoints, with a dashboard for visualizations.

ACHIEVEMENTS

- Rated **Knight (1875+)** on LeetCode, **3-Star (1680+)** on CodeChef, and **1654** on GeeksforGeeks; solved **700+** DSA problems across 40+ contests.
- Held leadership roles in Google communities: **GDG Organizer, Cybersecurity Lead at GDSC GVPCE** (organized **5+ CTFs impacting 100+ students**), and **Google Cloud Campus Ambassador**.
- Top 50 Mentor** in GirlScript Summer of Code 2024, led **15+ contributors** to deliver **10+ open-source projects**.

TECHNICAL SKILLS

- Languages:** Python, C, C++, Java, JavaScript, HTML, CSS
- Frameworks & Libraries:** React.js, Node.js, Express.js, Django
- Databases:** MongoDB, MySQL, PostgreSQL, Firebase
- Tools:** Git, GitHub, GitHub Actions, Postman, JIRA, VS Code, Figma, Azure, Google Cloud Platform (GCP)
- Practices:** Version control, REST API design, Microservices, Testing, Agile