

CHIRRAGONI PRASANNA KUMAR

+91 9010617565 | prasannakumar6672@gmail.com | GitHub | LinkedIn

EDUCATION

CMR Technical Campus, Hyderabad

B.Tech in Computer Science & Engineering (AI & ML)

CGPA: 8.24

2023 – 2027

TECHNICAL SKILLS

Languages: C, Python, Java, JavaScript

Frontend: React.js, Next.js, HTML, CSS

Backend: Node.js, Express.js (REST APIs, Middleware, MVC Architecture)

Database: MongoDB, MySQL

AI/ML: TensorFlow, Roboflow API

Concepts: Data Structures & Algorithms, RESTful API Design, OOP

Tools: Git, GitHub, VS Code, Cloudinary

PROJECTS

AI-Powered Road Damage Detection & Smart Civic Complaint System

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, Multer, Cloudinary, Roboflow API

- Built full-stack complaint management system with role-based JWT authentication (Citizen & Officials).
- Integrated Roboflow pretrained API to detect potholes, cracks, and erosion with severity scoring.
- Designed RESTful backend architecture with MongoDB schema and complaint lifecycle tracking.
- Developed secure image upload pipeline using Multer and Cloudinary cloud storage.

Vital Agent – AI Health Risk Prediction System

Tech Stack: Python, TensorFlow (LSTM), REST APIs, Gemini API

- Developed AI-based health risk prediction system using TensorFlow LSTM on 7-day sequential vitals data.
- Generated probabilistic risk scores (0–1) and integrated trained model (.h5) into backend for real-time inference.
- Implemented threshold-based alert mechanism and Gemini API integration for personalized health recommendations.

INTERNSHIPS

AWS Data Engineering Virtual Internship

Oct 2024 – Dec 2024

EduSkills (in collaboration with AWS Academy)

- Applied data preprocessing and ETL concepts on structured datasets and explored cloud storage fundamentals.
- Designed sample data pipeline workflows and practiced structured data transformation techniques.

Palo Alto Cybersecurity Virtual Internship

Jan 2025 – Mar 2025

EduSkills (in collaboration with Palo Alto Networks)

- Explored network security principles, threat detection methods, and vulnerability analysis.
- Analyzed cybersecurity case studies and studied mitigation strategies.

CERTIFICATIONS

AWS Academy Data Engineering

AWS Academy Cloud Foundations

AI for Everyone (Coursera)

MongoDB Basic

ACHIEVEMENTS

- Contributor in **Guinness World Record**—recognized **Agentathon 2025** (Malla Reddy University).
- Participant – Smart India Hackathon (SIH) 2025.
- Participated in multiple national-level AI and software development hackathons.
- Consistent DSA practice on LeetCode (problem-solving focused).

INTERESTS

- Exploring emerging AI frameworks and tools
- Applied machine learning
- Competitive programming