

RAVI TEJA BHAGAVATULA

AI Enthusiast | Machine Learning Engineer

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PROFESSIONAL SUMMARY

Motivated 3rd-year CS student with a strong academic foundation and practical proficiency in Data Structures & Algorithms, Java (Collections Framework), and Python (AI/ML). Also possesses a comprehensive understanding of Full Stack development. Eager to apply skills to real-world problems and contribute to innovative projects for Web Development (MERN stack).

EDUCATION

Bachelor of Technology - Computer Science Engineering

2023 - 2027

Gayatri Vidya Parishad College Of Engineering (Autonomous) | Visakhapatnam, India

CGPA : 9.29

Expected Graduation: June 2027

Intermediate (MPC) - Mathematics, Physics, Chemistry

2021 - 2023

Ascent Junior College | Visakhapatnam, India

Percentage : 96.5

Board of Intermediate Education, Andhra Pradesh, India

TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, SQL

Machine Learning: Scikit-Learn, Pandas, NumPy, Matplotlib

Tools Technologies / Frameworks: HTML, CSS, Javascript, React, KiCAD

Cloud Platforms: Google Cloud Platform, IBM Cloud, IBM Watson

Course Work

- Data Structures and Algorithms
- Operating Systems
- Database Management Systems
- Computer Networks
- Object Oriented Programming

KEY PROJECTS

Android GNSS Logger with Collision Detection (SIH)

- An *Android app* for ISRO to log raw **GNSS/IMU** data and prevent vehicle collisions in real-time.
- Engineered a real-time collision detection system using an **Extended Kalman Filter (EKF)** for sensor fusion, achieving 5-10m position accuracy.
- Implemented a low-latency (20-50ms) **P2P** vehicle communication system using **UDP Multicast, Bluetooth(BLE)** for automatic device discovery and data sharing.
- Designed a **multi-level warning system (visual, audio, vibration)** to alert users about collision risks based on probabilistic risk assessment.
- Tech Stack: Kotlin (Native Android), Extended Kalman Filter (EKF), UDP Multicast, CSV.

CivicVoice: Full-Stack Civic Reporting Platform (SIH)

- A comprehensive **web and mobile platform** for citizens to report local issues, track status, and engage with government workflows.
- Architected a full-stack solution with a React frontend, Express backend, and Firebase for auth and **real-time notifications (FCM)**.
- Implemented key server-side modules for gamification (points, leaderboards) and report status tracking (SLA, escalations).
- Tech Stack: React, Node.js, Express, Firebase (Auth, Firestore, FCM), TypeScript, SQLite.

AI Health Symptom Checker (IBM AI and Cloud Virtual Internship)

- An intelligent chatbot developed during the **Edunet IBM AI & Cloud Internship** to analyze symptoms and provide health information.
- Utilized the **Mistral 70b** large language model to power the core conversational and analytical engine.
- Deployed the application on IBM Cloud, gaining hands-on experience with cloud-based AI services and model integration.
- Tech Stack: Python, IBM Cloud, IBM Watson, Mistral 70b, AI/ML.

AI Garbage & Recyclables Detection (Mini Project)

- An AI-powered web and mobile application to automatically classify 30 different types of garbage and recyclable materials from images.
- Trained and deployed a lightweight **Convolutional Neural Network (CNN)** using **TensorFlow Lite** for efficient on-device inference.
- Separately developed a **native Android** version of the classifier using Kotlin, demonstrating cross-platform deployment skills.
- Tech Stack: Python, Streamlit, TensorFlow Lite, CNN, Kotlin (Native Android), Pillow.

ACHIEVEMENTS & CERTIFICATIONS

- **Google Cloud Arcade Cohort 2 (2024)**: Successfully completed cloud-based challenges, earned skill badges and reached arcade champion tier.
- **Hackathons & Coding Events**: Active participant
- **Certifications**: Artificial Intelligence Fundamentals (IBM), Academy Cloud Foundations (Amazon Web Services (AWS)), Python Basics for Data Science (edX), Academy Machine Learning Foundations (Amazon Web Services (AWS))
- **Smart India Hackathon**: Qualified for 2nd Round of Smart India Hackathon

SKILLS AND ABILITIES

- Strong leadership and time management skills demonstrated both in individual and collaborative environments
- Proven ability to work effectively independently as well as in team settings
- Quick to adapt to new situations and environments

EXTRA CURRICULAR ACTIVITIES

- Google Student Ambassador - GVPCE(A) 2025-2026
- Deputy Head of Projects - YfS Club 2025-2026
- School Captain 2022-2023

PERSONAL PROFILE

Name: Ravi Teja Bhagavatula

Date of Birth:11/08/2005

Father's Name: Satish Kumar Bhagavatula

Languages Known: English, Telugu, Hindi

Nationality: Indian

Gender: Male