

# VORSU TEJA VIGNESHWAR

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## Summary

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Dedicated Computer Science and Engineering student specializing in Artificial Intelligence and Machine Learning. Proficient in Python, Data Structures and Machine Learning. Strong problem-solving skills with experience in building scalable applications. Passionate about leveraging technology to develop innovative solutions and seeking opportunities to apply my expertise in software development.

## Education

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### CVR College Of Engineering

*B.Tech in Computer Science (AI & ML) — CGPA: 8.58/10.0*

Rangareddy, Telangana

*Nov 2022 – Present*

### Gouthami Junior College

*Class XII - PCM — Percentage: 97.3*

Nalgonda, Telangana

*June 2020 – May 2022*

## Technical Skills

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**Programming Languages:** Python, JavaScript, SQL

**Web Technologies:** HTML, CSS, Bootstrap

**Libraries:** Pandas, NumPy, Plotly, Matplotlib, Seaborn, Streamlit, Scikit-learn

**Tools & Platforms:** GitHub, VS Code, PyCharm, Jupyter Notebook

**Other Skills:** Data Structures & Algorithms (DSA), Machine Learning Algorithms, Work Ethic, Time Management

**Coding Profiles:** [LeetCode](#) | [HackerRank](#)

## Projects

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### Olympics Data Analysis | Python, Pandas, Numpy, Plotly, Matplotlib, Seaborn

[🌐 Live](#) | [GitHub](#)

- Performed a comprehensive **data analysis on Olympic datasets**, uncovering trends in athlete performance, country-wise medal distributions, and event statistics.
- Utilized **Python, Pandas, and NumPy** for data preprocessing and **Seaborn, Plotly, and Matplotlib** for interactive visualizations.

### Personal Portfolio Website | HTML, CSS, JavaScript

[🌐 Live](#) | [GitHub](#)

- Designed and built a **fully responsive Portfolio website** using **HTML, CSS, and JavaScript** to showcase my skills, publications and projects.
- Implemented responsive design principles to ensure compatibility across various devices and screen sizes.

### Personalized Travel Itinerary Planner (GenAI Powered) | Python, Django, Firebase, Gemini API

[GitHub](#)

- Built an **AI-powered travel assistant** that generates custom travel plans using **Generative AI** based on user inputs.
- Integrated **Gemini API** to produce day-wise itineraries tailored to location, duration, and personal interests.

### AI-Driven Traffic Management System | AI, Computer Vision, YOLO, RNN

[GitHub](#)

- Developed an **AI-powered traffic monitoring system** using **computer vision and deep learning** to optimize urban traffic flow.
- Implemented **YOLO-based object detection** for real-time vehicle tracking and congestion analysis, improving traffic signal efficiency.
- Designed an **adaptive traffic signal control model** using **Recurrent Neural Networks (RNNs)** to dynamically adjust signal timings based on live traffic density.

## Publications

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**AI-Driven Traffic Management System Using Computer Vision & Machine Learning** *IJERST*, Vol. 21, Issue 1, 2025. ISSN: 2319-5991. Proposed a real-time traffic control system using YOLO-based object detection and ML techniques. [Read More](#)

## Languages

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**English** (Professional), **Hindi** (Conversational), **Telugu** (Native)