VORSU TEJA VIGNESHWAR

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Summary

Dedicated Computer Science and Engineering student specializing in Artificial Intelligence and Machine Learning. Proficient in Python, Data Structers 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

CVR College Of Engineering — Rangareddy, Telangana
B.Tech in Computer Science (AI & ML) — CGPA: 8.58/10.0 — *Nov 2022 – Present*

Gouthami Junior College — Nalgonda, Telangana
Class XII - PCM — Percentage: 97.3 — *June 2020 – May 2022*

Technical Skills

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 | </>GeeksForGeeks

Projects

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
- Built an **AI-powered traffic monitoring system** with **YOLO** object detection for real-time vehicle tracking and congestion analysis.
- Developed an **RNN-based adaptive signal control** model to optimize traffic light timings using live traffic density data.

Publications

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 🌐 Certificate

Certifications And Achievements

Data Structures and Algorithms: Solved 400+ problems across LeetCode, GeeksForGeeks and HackerRank.
Google Cloud – Data Analytics: 🌐 Certificate
SQL, Oracle Certification: 🌐 Certificate