GARVIT RASTOGI

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EDUCATION

Vellore Institute of Technology **2021 – 2025**
B.Tech, Computer Science and Engineering In IoT,- ***CGPA: - 8.30/10*** *Vellore, Tamil Nadu*

PROJECTS

Alzheimer's Disease Diagnosis and Progression Level Tracking Using MRI Data **May 2025**

- Developed a machine learning pipeline to predict progressive Alzheimer's stages (0–3) using MRI, clinical, and neuropsychiatric data.
- Python, Google Colab, Scikit-learn, XGBoost, LightGBM, CatBoost, TensorFlow, Pandas, NumPy, Matplotlib, and Seaborn.
- Tuned neural network model achieved highest F1-score (0.74 test), outperforming baseline classifiers in detecting advanced AD stages.

Weather App **Nov 2024**

- Developed a responsive weather application that fetches real-time weather data for any city using the OpenWeatherMap API.
- Utilized HTML, CSS, and JavaScript to build the frontend interface and handle API interactions.
- Implemented functionalities to display current temperature, humidity, wind speed, and weather conditions with intuitive visuals.

Impact Of Climate Change on Incidence of Vector Borne Diseases **Sep 2024**

- "Impact of Climate Change on Incidence of Vector-Borne Diseases" focused on analyzing dengue patterns in India.
- Python (Google Colab), Power BI, MS Excel, Matplotlib, Jupyter, OPTICS and DBSCAN clustering.
- Found a positive correlation between rising temperatures and increasing dengue cases; OPTICS outperformed DBSCAN in clustering accuracy.

EXPERIENCE

Project Intern **Aug 2023 – Nov 2023**

- Actively contributing to C-DAC's cutting-edge IoT projects, specializing in Raspberry Pi AD/DA board integration.Designing and implementing innovative IoT solutions that leverage the power of Raspberry Pi AD/DA technology

TECHNICAL SKILLS

Languages and Tech: Python. SQL, HTML/CSS, Git, MySQL, API
Tools: Google Colab, VS Code, Jupyter NoteBook, IntelliJ, MS Office, Arduino IDE, GitHub, Google Sheets
CourseWork: DSA, Oops, Operating System, DBMS, Fog and Edge Computing
Soft Skills: Quick learner, Communication, Teamwork, Adaptability, Leadership, Project Management, Analytical Thinking, Problem solving and Critical Thinking

ACHIEVEMENTS

- Followed "100 Days of Code" Python challenge and practiced on HackerRank