

VADDI UGANDHAR

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SUMMARY

Final-year ECE student with experience in Python-based data analysis, ML model development, SQL, and web technologies. Passionate about solving real-world problems through clean, efficient code and collaborative teamwork. Looking for a software/IT role to apply my skills in building reliable, scalable, and user-focused solutions.



EDUCATION

Bachelor of Engineering in Electronics and Communication Engineering Aug 2022 - Jul 2026

Sathyabama Institute of Science and Technology | Chennai, India

8.9 CGPA | Published the research paper "Audio Transmission using LI-FI," detailing an end-to-end optical wireless system that achieved over 90% audio clarity.

Intermediate (MPC - Maths, Physics & Chemistry)

Nov 2020 - Apr 2022

Sri Viswa Jr. College | Visakhapatnam, India

96.1% | Board of Intermediate Education, Andhra Pradesh

PROJECTS

Sexual Harassment Classification using ML, Mar 2025 - July 2025

- Developed a machine learning pipeline using TF-IDF and Support Vector Machine (SVM) to classify online harassment with 92.6% accuracy across a dataset of 10,000+ text samples.
- Engineered a lightweight, browser-based UI for real-time input, enabling end-to-end user interaction.
- Reduced false positives by 18% through context-aware filtering and iterative model tuning.
- Optimized the deployment model, ensuring minimal latency and seamless integration with web-based front ends.

3D Maze Game using Unity Hub & Blender, Nov 2023 - Mar 2024

- Modeled and optimized 15+ 3D assets in Blender, reducing render load by 25% for smoother gameplay.
- Scripted interactive game logic in C# using Unity, including physics-based ball control, dynamic score tracking, and collision-based win conditions.
- Implemented responsive UI/UX elements and event-driven sound effects, enhancing player immersion and real-time feedback.
- Improved frame stability by 30% by profiling game loop performance and refining object interactions.

INTERNSHIPS

UAV Embedded Designer, MachCent Aerospace Pvt. Ltd., Mar 2025 - July 2025

- Designed and deployed embedded systems for UAVs, enhancing flight stability and sensor responsiveness.
- Optimized circuit reliability under thermal and vibrational stress, maintaining 98% uptime during field trials.
- Executed 30+ system validation cycles and pre-flight QA routines; identified and resolved 15 integration faults.
- Developed automated diagnostics for sensor calibration and fault isolation, reducing deployment errors by 20%.
- Integrated IMU, GPS, and environmental sensors with STM32 microcontrollers, enabling live data acquisition.

Intern, Bharath Intern Pvt. Ltd., Nov 2023 - Jan 2024

- Designed and developed 10+ responsive web pages using HTML, CSS, and Bootstrap, ensuring cross-device compatibility.
- Implemented clean, mobile-first UI/UX layouts that improved load times and visual hierarchy across screen sizes.
- Utilized Git for version control and deployed sample projects to hosting platforms, simulating real-world web development workflows.

CERTIFICATIONS & ACHIEVEMENTS

- Responsive Web Design - freeCodeCamp
- AI using Python - IIT(M)
- Google Cloud Study Jams - Generative AI & Cloud
- 5🌟 C & 3🌟 Java - HackerRank
- Data Structures through C and C++ - SIST
- Awards: 2nd Place - IIoT Quiz, 2nd Place - Paper Publication "LI-FI";

SKILLS

Languages: C, Java, Python, HTML, CSS

Key Competencies: Statistical Modelling, Hypothesis Testing, Regression, Classification, Clustering, PCA, SQL, Data Visualization

Tools & Platforms: Git, GitHub, Bootstrap, Unity, Blender, VS Code, MS Office

Concepts: OOP, Responsive Design, UI/UX, Debugging, Data Preprocessing, SDLC, Functional Testing

LEADERSHIP & INVOLVEMENT

President – Science Club: Managed core team, led technical sessions, hosted hands-on workshops

Chairperson – ISTE: Coordinated tech events, quizzes, and peer-learning initiatives

Speaker – Orientation event for 1000+ juniors (ECE), shared roadmap for college journey and learning habits

LINKS

GitHub - <https://github.com/uga961>

LinkedIn - <https://www.linkedin.com/in/vaddi-ugandhar-b37877266/>

HackerRank - https://www.hackerrank.com/profile/42130516_ECE