REVANTH MODALAVALASA

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I am a driven professional with hands-on experience in educational support and technical development. I have won multiple hackathons and led projects that solve real-world problems, with a focus on intelligent systems and management tools. My strengths lie in problem solving, programming, and effective team collaboration, with a proven ability to enhance engagement and optimize processes through innovation.

EDUCATION

2023 - 2027	Bachelor of Technology in Computer Science and Engineering Vellore Institute of Technology, Andhra Pradesh, India

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C, C++

- **Tools and Technologies:** Git, React, HTML, CSS, JavaScript, Figma, 3D CAD Model Designing, MySQL, MongoDB, Django, Node.js, Express.js

- **Areas of Expertise:** Data Structures and Algorithms, Object-Oriented Programming, Web Development, App Development, UI/UX Designing

- **IoT Automation:** Arduino, Raspberry Pi, Hardware integration, Real-time data processing

PROJECTS

Library Management System: Developed a system to streamline the process of managing library books, students and borrowing records. Using Python and object-oriented programming concepts for an efficient database-driven application.

Laundry Management System: A web application built using React, HTML, and CSS to help manage student laundry submissions. Features cloth counting, registration validation, and alerts for exceeding laundry limits.

Gmail Replica (AppFusion Hackathon): Created a Gmail-inspired email management system as part of the AppFusion hackathon. Implemented inbox management, email sending, and a clean UI using React.

Skin Disease Detection using AI: Developed an AI-based model to identify and classify various skin diseases from image data. Training using large data sets and deployed for user-friendly medical diagnosis support.

Crop Disease Detection using CNN: Implemented a neural network computational model to detect plant leaf diseases with high accuracy: utilized image processing techniques and a trained deep learning model to aid farmers in early disease identification.

Intelligent Safety Helmet Prototype: Designed a Multitasking Smart Helmet prototype for worker safety. Integrated sensors, a camera module, and real-time communication features for industrial and rescue applications.

Research Development: An Open Access Tool for Medical Students.

EXPERIENCE   ACHIEVEMENTS

Intern – Purple Techno Solutions
Jan 2025 – Apr 2025
Worked on Full Stack Development and AI/ML-based solutions. and practical deployment of applications.

R&D Intern – TechtoGreen
Aug 2024 – Present
Research and Development intern at TechtoGreen, a VIT-AP university-backed startup.

- Winner of **HackAP Hackathon 2024**, secured 1st place.

- **Global Nominee** in **NASA Space Apps Challenge 2024**, contributed to real-world space problem-solving.

- Winner at **AppFusion Hackathon**, developed a Gmail replica and secured 1st place.

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- Telugu (Fluent)
- French (Basic)