

S. M. AJAY ANAND

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EDUCATION

Vellore Institute of Technology

B.Tech, Computer Science Engineering and Business Systems - CGPA: 9.12

Aug 2023 – May 2027

Vellore, India

Sri Chaitanya Techno School

CBSE - Class XII - 90.7%

Jun 2021 – Apr 2023

Hosur, India

Sri Chaitanya Techno School

CBSE - Class X - 92.4%

Jun 2020 – May 2021

Hosur, India

TECHNICAL SKILLS

Languages	Python, Java, JavaScript, SQL, C, C++, HTML, CSS
Frameworks	ReactJS, NextJS, ExpressJS, FastAPI, TailwindCSS, Bootstrap, Shadcn, Three.js
Databases	MySQL, PostgreSQL, MongoDB
ML / AI	PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, Transformers, PEFT
Cloud & Dev Tools	AWS, Firebase, Vercel, Docker, Linux, Git, Postman, Figma, Axios, WatsonX

PROJECTS

- MedxBot** | *PyTorch, Transformers, PEFT, FastAPI, React* Jul 2025 – Oct 2025
 - Built an AI-powered medical interface using fine-tuned BERT and LoRA TinyLlama.
 - Implemented efficient LoRA fine-tuning with a two-step diagnosis and explanation pipeline.
- Space Cargo Stowage System** | *ReactJS, FastAPI, Polars, Three.js* Mar 2025 – May 2025
 - Developed backend for cargo import/export with Polars-based validation using FastAPI.
 - Visualized ISS cargo layout and 3D model using React and Three.js for spatial mapping.
- Meeting Scheduler** | *ReactJS, NodeJS, Firebase* Feb 2025 – Mar 2025
 - Integrated Google OAuth and Calendar API for real-time meeting scheduling and notifications.
 - Built a dynamic booking interface with time zone support and Firestore-based data sync.
- Crop Disease Detection System** | *ReactJS, NodeJS, TensorFlow* Sep 2024 – Oct 2024
 - Built an ML model for detecting crop diseases from images and deployed it with a Node backend.
 - Added a map view for disease outbreaks and yield prediction using rainfall and crop data.

EXPERIENCE

KalkiNI

Frontend Development Intern

Feb 2025 – Mar 2025

Hybrid

- Contributed to two web projects utilizing the React for scalable and responsive development.
- Revamped the organization's primary website by resolving critical issues and integrating new sections.
- Acquired hands-on experience in debugging, UI/UX optimization, and agile team collaboration.

ACHIEVEMENTS

- IIT Delhi Space-Hack 2025:** Top 10 among 1000+ teams. | [Certificate](#)
- Caterpillar Codeathon 2024:** Qualified for the final round among 4500+ students.

CERTIFICATIONS

- Full-Stack Web Development Bootcamp (udemy)
- IBM Generative AI