

# S. M. AJAY ANAND

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## EDUCATION

<b>Vellore Institute of Technology</b> <i>B.Tech, Computer Science Engineering and Business Systems - CGPA: 9.12</i>	<b>Aug 2023 – May 2027</b> <i>Vellore, India</i>
<b>Sri Chaitanya Techno School</b> <i>CBSE - Class XII - 90.7%</i>	<b>Jun 2021 – Apr 2023</b> <i>Hosur, India</i>
<b>Sri Chaitanya Techno School</b> <i>CBSE - Class X - 92.4%</i>	<b>Jun 2020 – May 2021</b> <i>Hosur, India</i>

## TECHNICAL SKILLS

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

## PROJECTS

• <b>MedxBot</b>   <i>PyTorch, Transformers, PEFT, FastAPI, React</i>	<b>Jul 2025 – Oct 2025</b>
– 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.	
• <b>Space Cargo Stowage System</b>   <i>ReactJS, FastAPI, Polars, Three.js</i>	<b>Mar 2025 – May 2025</b>
– 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.	
• <b>Meeting Scheduler</b>   <i>ReactJS, NodeJS, Firebase</i>	<b>Feb 2025 – Mar 2025</b>
– 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.	
• <b>Crop Disease Detection System</b>   <i>ReactJS, NodeJS, TensorFlow</i>	<b>Sep 2024 – Oct 2024</b>
– 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

<b>KalkiNI</b> <i>Frontend Development Intern</i>	<b>Feb 2025 – Mar 2025</b> <i>Hybrid</i>
• Contributed to two web projects utilizing the React for scalable and responsive development.	

- 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