

Diya Matani

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EDUCATION

Vellore Institute of Technology

2022 - 2026

B.Tech in Computer Science and Engineering — CGPA: 8.87

SKILLS

- **Languages:** C++, Python, SQL, HTML, CSS, JavaScript
- **Technologies/Frameworks:** React, Redux, Deep Learning, Machine Learning
- **Tools & Applications:** Gen AI tools, Github, Excel (Advanced), Git, VSCode

EXPERIENCE

BLG Technologies (P) LTD

Dec'24 – Mar'25

Intern (Winter Internship)

- Developed a Hostel Management Portal using React and JavaScript with real-time analytics dashboard, implemented responsive UI components with HTML/CSS, and integrated Firebase for authentication and data management, reducing manual work by 40% and improving user experience across devices.

PROJECTS

NomadNest

HTML — CSS — JavaScript — React — Redux — Git — Firebase

- Built a responsive accommodation booking platform using React, Redux, and Chakra UI with Firebase for authentication and data management.
- Implemented search, filtering, and dynamic property pages to enhance user experience and navigation.
- Optimized the interface for cross-device compatibility ensuring smooth performance across web and mobile.

Chai-iayah

JavaScript — HTML — CSS — Photoshop

- Platform dedicated to chai, coffee, and snacks with responsive and mobile-friendly design using JavaScript, HTML and CSS ensuring compatibility across various devices and browsers.
- Features include user-friendly navigation, shopping cart, user login page, and sales banners highlighting special deals.

Flood Detection Using Satellite Imagery Analysis

Python — TensorFlow — Keras — Streamlit — Deep Learning

- Built a U-Net convolutional neural network to perform pixel-level flood segmentation using Sentinel-1 SAR, DEM, and hydrography data, achieving 96% validation accuracy.
- Deployed the system through a Streamlit web interface enabling users to upload satellite images and visualize flood probability masks in real time.

ACHIEVEMENTS

- **Limca Book of Records & Indian Book of Records** — Recognized nationally for exceptional mental arithmetic skills at Trendz Abacus.
- **Runner Up — Project Expo** — Secured Top 10 position at Industry Conclave VITB 2024.
- **500+ Problems Solved** — LeetCode, GeeksforGeeks — Strong problem-solving skills in Data Structures and Algorithms.
- **Certifications:** Applied Machine Learning in Python (Coursera) — Cloud Computing (NPTEL).

POSITION OF RESPONSIBILITY

- **Pahal Kids Classes** — Conducted and organized classes and activities for workers' children, enhancing communication and leadership skills.
- **Technical Member at Google Developer Groups** — Actively contributing to technical initiatives and community development.