



EDUCATION

B.E CSE - Sri Eshwar College of Engineering CGPA:8.27	2024-2028
HSC – Vivek Vidyalaya 93%	2022-2024
SSLC - Vivek Vidyalaya 96.4%	2021-2022

PROJECTS

Satellite-Based Monitoring System for Mangrove Forest Conservation	2025
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Developed an AI-integrated remote sensing system to monitor mangrove forest health in the Sundarbans using **Sentinel-2** and **Sentinel-5P** satellite data. Calculated **NDVI** and **CO concentration** to detect deforestation patterns and track carbon emissions over time. Trained a **Random Forest model** to predict vegetation degradation and generate actionable insights. Built a real-time dashboard for live visualization and alerts, supporting data-driven conservation decisions.

Dream Design – Home Design Platform	2025
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Co-created a responsive web application for interactive home design and customization. Enabled users to explore and personalize architectural layouts through an **intuitive design interface**. Implemented real-time updates and design recommendations using **HTML**, **CSS**, and **JavaScript**. Focused on accessibility and seamless **UX/UI** to ensure broad usability across devices and user types. Enhanced engagement with dynamic visual elements and user-centric functionality.

CERTIFICATIONS

Python Programming Masterclass Udemy	2025
Introduction to HTML SoloLearn	2024
Introduction to C SoloLearn	2024
Introduction to Career Skills in Software Development LinkedIn Learning	2024
Programming Foundations LinkedIn Learning	2024
Completion of C and Cpp Training Spoken Tutorial	2024

ACHIEVEMENTS

Winner of Freshathon 2025 (Project Expo 3.0)	2025
Winner of Createathon (Website building)	2025

CODING PLATFORMS

Leetcode : Solved **70+** problems | Global rank : **1,545,575** | [link](#)
Hacker Rank : Problem Solver | [link](#)
Codechef : Solved **120** problems | [link](#)
Skill Rack : Solved **650+** problems | Received **2** certificates | **170+** Bronzes | [link](#)

SKILLS

Programming - C | C++ | Python
Core Concepts - DS | OOP
Web Technologies - HTML | CSS
Database – MySQL
Data Science & Analysis Libraries – Pandas | NumPy
Tools - VSCode | Codeblocks | Canva | Excel | GitHub