

NILAVRA GHOSH

✉ nilavra.ghosh@students.iiit.ac.in | in LinkedIn | GitHub | 📍 IIIT Hyderabad

EDUCATION

International Institute of Information Technology Hyderabad

B.Tech in Electronics and Communication Engineering

Jawahar Navodaya Vidyalaya

Class XII CBSE; 86.4%

Jawahar Navodaya Vidyalaya

Class X CBSE; 95%

Hyderabad, India

Expected: 2027

Pondicherry, India

2023

Hassan, India

2021

PROJECTS

Full-Stack E-Commerce Website

- Designed and developed a full-stack **E-Commerce** platform using **React.js**, **Node.js**, **Express.js**, **MongoDB**, and **Razorpay**.
- Implemented **product filtering, sorting, and search functionalities** to enhance user experience.
- Integrated **secure payment gateways** using Razorpay for seamless transactions.

Lost & Found Website

- Developed a **React**-based Lost & Found website using **Firebase** during a college hackathon.
- Implemented **user authentication**, item listing, and search functionality to streamline lost item recovery.
- Tech Stack:** React.js, Node.js, Firebase, Tailwind CSS.

A2P (Air to Protein) Website

Current

- Building interactive dashboard displaying real-time protein production metrics and analytics using React, Node.js, MongoDB
- Developing 3D visualizations of the conversion process using **React Three Fiber**.
- Implementing admin panel with equipment control and monitoring functionality

Animated Portfolio Website

- Developed a highly interactive and animated portfolio website using **Three.js**, **React.js**, and **Vite** to showcase projects and skills. Integrated responsive design and smooth page transitions using **Framer Motion**.
- Utilized **Tailwind CSS** for a clean UI and **React Router** for seamless navigation.

C Shell

- Developed a **command-line shell** similar to Bash, implemented in **C**.
- Implemented **process handling**, **piping**, and **I/O redirection** for efficient command execution.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, SQL, Bash

Frameworks: React.js, Node.js, Express.js, Tailwind CSS

Libraries: Three.js, Framer motion, Pandas, NumPy, Matplotlib

Databases: MongoDB, MySQL, Firebase

Tools: Git, Linux, VS Code, Vite, LaTeX

RELEVANT COURSES

Programming: Computer Programming, DSA.

Mathematics: Linear Algebra, Probability and Random Processes, Real Analysis.

EXPERIENCE

Scholar and Mentor-Avanti Foundation

Dec 2021 – Present

- Awarded the Avanti Foundation Scholarship for academic excellence and leadership potential.
- Mentor and guide students in preparing for competitive exams, enhancing problem-solving skills and strategic thinking.

AWARDS

- Gifted Children Award (2018-19): Recognized for being proficient in STEM.
- Rajya Puraskar (2019-20): Awarded by The Bharat Scouts and Guides.