NIRMALYA CHATTERJEE

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Education

National Institute of Technology (NIT), Kurukshetra   **Haryana**
B.Tech - Computer Science and Engineering   *Aug. 2023 – May 2027*

Kendriya Vidyalaya Sanghathan, CMERI, Durgapur   **Durgapur, WestBengal**
Class XII CBSE : 91.8 percent ; JEE mains'23 : 99.39 percentile   *2023*

Technical Skills

Languages: Python, Java, C++, HTML/CSS   **DBMS**: MySQL, MongoDB
Developer Tools: VS Code, ArduinoIDE   **FrontEnd Backend Frameworks** : TailWind, Node JS, Express JS

Experience

CodSoft Intern   **July 2025 - Present**
- Developed a full-stack e-commerce site and project management tool using React, Node.js, and MongoDB/PostgreSQL..
- Implemented features like user authentication, product filtering, task tracking, and payment integration during internship at CodSoft.

Frontend Contributor   **May 2024 – June 2024**
Embedded Systems and Robotics Club   *NIT Kurukshetra*
- Contributed to the development of my club's website by working on basic frontend components.
- Implemented simple UI elements and assisted in structuring the layout using HTML, CSS, and JavaScript.

Embedded Systems Workshop Mentor   **Jan 2025 – Jan 2025**
Embedded Systems and Robotics Club   *NIT Kurukshetra*
- Mentored **100+ students** on **Arduino hardware, embedded programming**, and **logic building**, providing hands-on training.

Projects

Air Hockey Game with Hand Tracking ⌐ |*Python, Numpy, Open CV*   *Feb 2025*
- Developed an Air Hockey game where hand movements controlled the paddle using Digital Image Processing (DIP).
- Implemented hand tracking techniques to detect gestures and translate them into paddle movements for real-time gameplay interaction.

Attendance System using Facial Recognition ⌐ |*Python, Google Firebase*   **March 2024**
- **Developed a real-time facial recognition attendance system** using OpenCV, face recognition, and Firebase, enabling automatic student identification and attendance marking.
- **Integrated Firebase Realtime Database and Cloud Storage** to store student details, track attendance records, and retrieve student images dynamically.
- **Implemented optimized face encoding and recognition algorithms** to ensure accurate and efficient detection, reducing false positives and improving system reliability. Created a Linux virtual machine to run on Google Cloud so that the program is able to run everyday from the cloud.

Pill Alarm System ⌐ |*Arduino IDE, Proteus, C++*   **November 2024**
- **Designed an automatic pill alarm system** using an Arduino, RTC module, LCD, and buzzer to remind users to take medication on time.
- **Implemented user-configurable alarms** with EEPROM storage, allowing multiple alarm settings and real-time clock synchronization.
- **Integrated interactive controls** with push buttons for setting alarms and adjusting time, ensuring ease of use for elderly and patients.

Achievements

- Solved 250+ Data Structure and Algorithms problems on LeetCode
- Achieved 1646 rating on LeetCode