Ayush Kumar Singh

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EDUCATION

Netaji Subhash Engineering College, Kolkata   August 2022 – June 2026

B.Tech in Electronics and communication Engineering
CGPA (Upto 6th Sem): 7.41

Kendriya vidyalaya chittaranjan, chittaranjan   March 2010 – june 2022

Higher Secondary Education [**Percentage:** 83.2%]
Secondary Education [**Percentage:** 87.2%]

SKILLS

Languages: C++, C, JavaScript,Java

Web Technologies: HTML, CSS

Databases: MySQL,MongoDB

Frameworks & Libraries: React, Express, socket.IO, Bootstrap

Embedded & IoT Platforms: ESP32, Arduino IDE, IoT Protocols

Others: Data Structure and Algorithm, Computer Network,Embedded Systems

PROJECTS

Vehicle Accident Detection and Alert System: An IoT-Based Emergency Alert System

- Built an ESP32-based system to detect crashes and send SMS alerts via GSM module.
- Integrated GPS for real-time location tracking without internet dependency.
- Includes manual SOS button and LCD display for emergency and status updates.

ChatSphere - A Real-Time Chat App using MERN Stack and Socket.IO

- Built a full-stack chat application using MongoDB, Express.js, React.js, and Node.js with real-time messaging via Socket.IO.
- Integrated JWT-based authentication with secure sign-up/login and protected routes.
- Enabled image sharing, online/offline user status, and persistent chat history across sessions.

CERTIFICATIONS

Circuit Design   Sep 2023
Netaji Subhash Engineering College
Auto street light system • 40 hrs

Industrial IoT (IIoT)   May 2024
Advance Integrated Tech Lab
Industrial Applications • 40 hrs

ADDITIONAL EXPERIENCE

Sports: Zest '24 (NSEC Annual Sports Fest)
Hackathons: Selected in SIH'24 Internal Round

INTERESTS & LANGUAGES

Reading Books • Sports • Economics & Business
Languages: Hindi (Native), English (Fluent)