

ABHAY KUMAR

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Education

Madan Mohan Malviya University of Technology

Bachelor of Technology in Computer Science and Engineering (current CGPA: 8.48)

2023 – 2027

Gorakhpur, Uttar Pradesh

Experience

AI Spark, MMMUT

Backend Developer

- Developed backend features for the [AI Spark platform](#), including real-time collaboration modules and API integrations.
- Handled database operations and server-side logic to ensure smooth data workflows and efficient user interaction.
- Actively contributed to coding, debugging, and maintaining core backend systems.
- Collaborated with the team to design and implement scalable solutions for AI-powered summarization and live communication features.

Projects

SOS Alert | JavaScript, NodeJS, React, MongoDB, Web-SOCKET, Web-RTC

July 2025

Project Link: [Live Demo](#) | [GitHub Repository](#)

- Real-Time Media & Location Sharing: Enabled users to share live video and audio streams using WebRTC and Socket.IO. Broadcast real-time location using Google Maps API with full support for late viewer joining and live navigation directions.
- Dynamic SOS Form & Admin Dashboard: Built a responsive form to collect personal and medical details including Cloudinary-based image upload. Developed an admin panel to view user records and export data in CSV and PDF formats.
- Secure Authentication & Account Management: Implemented OTP-based signup and password setup for new users. Added JWT-protected login system along with password recovery and reset features via secure email links.
- Emergency Alerts & User Communication: Automatically sent SOS alerts to up to five emergency contacts with links to live tracking and media streams. Developed a Contact Us page to receive user queries directly via email using Nodemailer.

Train Tracker Website | JavaScript, NodeJS, React, Express

March 2025

Project Link: [Live Demo](#) | [GitHub Repository](#)

- Live Train Running Status: Implemented real-time train tracking by integrating live location APIs for accurate updates on train movement.
- PNR Status (Under Development): Simulated PNR status checking feature using dummy data, designed to demonstrate back-end and frontend data flow in the absence of live APIs.
- Coach Layout (Under Development): Created a mock interface to display coach seating arrangements using sample data, laying the groundwork for full integration once APIs are available.
- User Interaction – Feedback Form: Developed a Contact Us form to collect user feedback and suggestions directly through the website.

Technical Skills

Languages: C, C++, JavaScript, Python, TypeScript

Data Structures and Algorithms: Proficient in implementing and optimizing data structures and algorithms using C++

Runtime/Platform: Node.js

Frameworks/Libraries: React.js, Next.js, Express.js, WebRTC, Socket.IO, Tailwind CSS

Databases: MongoDB, MySQL

Web Technologies: HTML, CSS

Core Computer Science: Operating System, System Design, Computer Networking, Database Management System (DBMS), Object-Oriented Programming (OOPs)

Achievements

- CodeChef:** ★★ (Max Rating: 1617) – [Profile](#)
- LeetCode:** Solved 350+ problems – [Profile](#)
- Codeforces:** Newbie (Max Rating: 1188) – [Profile](#)
- Secured 2nd Rank in a **GitHub** event – [Link](#)
- Secured a Top 10 Rank in a Capture The Flag (CTF) competition at the college level.
- Successfully qualified **JEE Mains** multiple times.
- Won several college-level competitions in coding, technical events, and hackathons.

Extracurricular

- Won multiple college-level Chess competitions organized under the Robomania and Techsrijan.
- Winner of Debate Competitions at both college and school levels.
- Chess.com Profile – [Link](#)