



# Abhishek Mandal

Roll No.: 2022UG2021

Bachelor of Technology (ECE)

Indian Institute Of Information Technology, Ranchi

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🔗 GitHub Profile

🌐 LinkedIn Profile

## EDUCATION

- **Indian Institute of Information Technology Ranchi** **CGPA: 7.0**  
*Bachelor of Technology (B.Tech) in Electronics and Communication Engineering* 2022 - 2026
- **DAV Public School, Bistupur** **Percentage: 79%**  
*Senior Secondary (Class XII), Central Board of Secondary Education (CBSE)* 2021
- **Motilal Nehru Public School, Jamshedpur** **Percentage: 94%**  
*Secondary (Class X), Indian Certificate of Secondary Education (ICSE)* 2019

## TECHNICAL SKILLS AND INTERESTS

**Languages:** C++, C, JavaScript(ES6+)

**Frontend:** HTML5, CSS3, Tailwind CSS, Bootstrap, Material UI, React.js, Redux Toolkit

**Backend:** Node.js, Express.js

**Databases:** SQL, MySQL, MongoDB, Mongoose

**Templating Engines:** EJS

**Developer Tools & Technologies:** Git, GitHub, RESTful APIs, Postman, ThunderClient, JWT, Vercel/Render, Cloudinary, Gemini API Integration, OpenAI API Integration

**Core Subjects:** Data Structures & Algorithms (DSA), Object Oriented Programming (OOPs), Database Management Systems (DBMS), Computer Networks

**Areas of Interest:** Competitive Programming, MERN Stack Web Development

## PROJECTS

- **NK Consultancy | CA Consultancy Platform** *July 2025 - Present*  
*Tech Stack:* React, Node.js, Express.js, MongoDB, Tailwind CSS, Framer Motion, Clerk, Razorpay API, Cloudinary API  
– Developed a full-stack **MERN** application to **automate my father's CA consultancy's workflow**, enhancing client communication and operational efficiency.  
– Architected a secure, **role-based dual-dashboard** (Client & Admin) using **Clerk JWT** for authentication, featuring real-time status tracking and **KPI visualization**.  
– Integrated **Razorpay API** for secure, server-verified payments and **Cloudinary API** with **Multer** for robust, cloud-based document management.  
– Built a responsive and animated UI with **Tailwind CSS & Framer Motion**, visualizing analytics with **Recharts**; deployed on **Vercel** and **Render**.
- **Tap In | Event Ticketing & Management Platform** *June - July 2025*  
*Tech Stack:* React.js, Node.js, Express.js, MongoDB | Cloudinary, Multer, Razorpay, Gemini API, JWT, Tailwind CSS, Framer Motion  
– Engineered a full-stack **MERN** event platform with a dynamic UI using **Tailwind CSS & Framer Motion**, featuring a **role-based dual-dashboard** (Attendee & Organizer) secured with **Clerk JWT** authentication.  
– Developed a secure, real-time **QR code ticketing & verification system** using **qrcode** (backend) and **html5-qrcode** (frontend) to prevent fraud and automate check-ins.  
– Integrated the **Razorpay API** with server-side **cryptographic signature validation** for secure payment processing and used **Cloudinary/Multer** for asset management.  
– Enhanced organizer efficiency with **AI-powered content generation** via the **Gemini API** and provided real-time event analytics visualized with **Recharts**.

## ACHIEVEMENTS

- Finished with **Rank 3** in the college's internal round of **Smart India Hackathon** through teamwork.
- Solved over **200** problems in **Data Structures, Algorithms**, and **Competitive Programming** domain
- Ranked in the **top 20%** in college coding competitions.
- Rated **2-Star** on **CodeChef**
- Achieved **96** percentile in **JEE Mains 2022**

## EXTRA-CURRICULAR ACTIVITIES

- **Member:** House of Geeks - Software Development Wing, IIIT Ranchi
- **Interests:** Fitness & Strength Training, Sketching & Digital Illustration, Miniature Model Making