

# Ayush Raj

B.Tech in Computer Science and Engineering  
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## EDUCATION

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- **Indian Institute of Information Technology, Design and Manufacturing** Jabalpur, Madhya Pradesh  
*Bachelor of Technology - Computer Science and Engineering* Aug 2023 - May 2027

## COURSEWORK / SKILLS

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- Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management System (DBMS), Object-Oriented Programming (OOPS), Software Engineering, Web Development

## TECHNICAL SKILLS

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- **Languages:** Python, C, C++, Java, Go (Golang), JavaScript, TypeScript, PHP, HTML, CSS, SQL, NoSQL
- **Developer Tools:** VS Code, Linux, Git, GitHub, Docker, Kubernetes, Cobra CLI, Helm (basic), Figma, Vercel, MongoDB Atlas, DataGrip, Anaconda, IntelliJ IDEA Ultimate
- **Frameworks / Technologies:** React, Next.js, Node.js, Express.js, Spring Boot, FastAPI, React Native, Tailwind CSS, Bootstrap, Streamlit
- **Databases:** MongoDB, MySQL, PostgreSQL
- **APIs / Backend:** REST APIs, JWT Authentication
- **Soft Skills:** Leadership, Event Management, Public Speaking, Time Management

## PROJECTS

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- **Saarthi – AI-Based Education Platform for Rural Students** GitHub | Live  
*Next.js, React, Tailwind CSS, JavaScript* Jan 2025 – May 2025
  - Led the development of an AI-powered education platform for rural students, featuring **30+ structured learning modules** to improve content accessibility.
  - Implemented an AI-based course generator to create **personalized learning paths** based on student preferences and progress.
  - Built an AI mock interview module with **10+ question templates** to help students practice communication and interview skills.
  - Designed interactive learning features including **flashcards and quizzes**, improving user interaction during practice sessions.
- **Kavach – Women Safety Reporting and Emergency Alert System** GitHub | Live  
*Node.js, React, Express.js, TypeScript, MongoDB* Nov 2024
  - Led the development of a real-time women safety platform supporting **emergency alerts and live location tracking**.
  - Implemented a **one-tap emergency alert system** to notify **3–5 trusted contacts** during critical situations.
  - Built **10+ RESTful backend APIs** to manage user profiles, incident reports, alerts, and location data.
  - Integrated MongoDB schemas to handle reports and alerts while maintaining **data consistency and basic access control**.

## ACHIEVEMENTS

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- **Codeforces:** Achieved **Pupil** rank with a peak rating of **1267**; participated in Div. 2 contests.
- Solved **400+** Data Structures and Algorithms problems across platforms including CodeChef, LeetCode, and others.
- **HackByte 3.0:** Ranked among the **Top 10 teams** out of **250+ teams** in a national-level hackathon.
- **Can You Hack It:** Secured **Runner-up** position among **50+ teams** in a 24-hour intra-college hackathon.

## VOLUNTEERING

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- **Core Member – The Programming Club (TPC), Dev Wing**  
*Organized coding contests, hackathons, and workshops to promote problem-solving and peer learning.*
- **Core Member – Business and Management Club (BMC)**  
*Conducted sessions and mentorship programs on entrepreneurship, leadership, and strategic thinking.*
- **Hackbyte 2.0 – IIITDM Jabalpur**  
*Coordinated a nationwide hackathon with 2000+ participants, encouraging innovation and collaboration.*