

# Sarthak Bansal

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## PROFILE

Detail-oriented IT undergraduate skilled in full-stack development and emerging AI technologies. Experienced with MERN stack, API integrations, and exploring Machine Learning and Agentic AI systems using Google ADK and lang-graph.

## EDUCATION

Indian Institute of Information Technology, Una

Himachal Pradesh, India

### Bachelor of Technology in Information Technology

Expected Graduation:2028

- Currently CGPA: 8.59(after 2<sup>nd</sup> Semester)
- Data Structures and Algorithms, Computer Programming, Engineering Mathematics

## SKILLS

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

**Frontend:** HTML5, CSS3, React.js, Tailwind CSS, Responsive UI Design

**Backend:** Node.js, Express.js, REST APIs, Middleware Integration, Fast API

**Database & Storage:** MongoDB, Mongoose, AWS S3

**Development Tools:** Git, GitHub, Postman, VS Code, Jupyter Notebook

**Deployment & Cloud:** Vercel, Render, Docker

**Additional Skills:** Machine Learning Fundamentals, LLM Integration, Agentic AI

## EXPERIENCE

College Dev-Team

### Full Stack Developer

- Developed and integrated dynamic forms for the college website using the MERN stack, enhancing user interaction and data collection efficiency.
- Built and connected an admin panel to manage form submissions, improving administrative workflow and backend management.
- Collaborated with the college development team to deliver responsive, scalable web components, gaining hands-on experience in full-stack development.

## PROJECTS

### MedAI

- Created **MEDAI**, an AI-powered platform offering instant first-aid support and nearby hospital recommendations.
- Connected real-time services using APIs and full-stack technologies (**React**, **Node.js**, **MongoDB**), enhancing emergency response.
- Launched application publicly via **Vercel and Render**, ensuring fast access and higher user outreach.

### Real Time Chat-App

- Developed a real-time **Chat Application** using **MERN stack** and **WebSocket** (Socket.IO) for instant two-way communication.
- Designed a dynamic and responsive frontend with **React.js** and managed real-time messaging with **Node.js**, **Express**, and **MongoDB**.
- Integrated WebSocket protocols to establish persistent connections, enabling efficient, low-latency chat experiences.

## ACHIEVEMENTS

- Secured 2nd Prize at **Progothon Hackathon**, organized by Indian Institute of Information Technology, Una, for developing **MEDAI**, an AI-powered emergency medical response web application.

- Led full-stack development using **MERN stack**, integrating real-time hospital locators, AI-driven first aid guidance, and SOS alert systems.
- **Selected for the College Development Team** for demonstrating strong MERN stack and problem-solving skills; contributed to official IIIT Una web modules used by 1,000+ students and faculty.