

Saurabh Kumar

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Location: Chandigarh

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Home: Bihar

SUMMARY

Full-Stack Software Engineer with experience building scalable mobile and web applications using Flutter, Node.js, and modern cloud technologies. Hands-on experience with backend systems, databases, and applied machine learning through LLM fine-tuning and evaluation. Strong problem-solving skills with a record of competitive achievements.

SKILLS

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

Frameworks: Flutter, Next.js, React.js

Backend & Cloud: Node.js, Express.js, FastAPI, LangChain, Firebase, AWS S3

Databases: MongoDB, PostgreSQL, SQL, DB2, ChromaDB

ML & AI: RAG systems, fine-tuning, dataset creation, prompt engineering, model inferencing

Tools: Git, GitHub Actions, Docker, Redis, AWS

EXPERIENCE

Project Associate I — IIT Ropar

Oct 2025 – Present

- Fine-tuned large language models using curated datasets to improve response quality and accuracy.
- Designed evaluation pipelines to benchmark LLM performance across multiple tasks.
- Collaborated with research teams to iterate on model improvements and experimental workflows.

Mobile App Developer — HBC&RC, New Chandigarh

Mar 2024 – Oct 2025

- Developed and maintained a production-grade Flutter application enabling digital access to hospital services.
- Built and deployed RESTful backend services using Node.js (JavaScript & TypeScript).
- Managed deployment on IIS Server, ensuring system reliability and uptime.

PROJECTS

TMC Punjab Saarthi — Full-Stack Developer

Flutter, Node.js, Express, DB2, Firebase

- Built a mobile application for managing patient records and hospital appointments.
- Developed backend APIs and integrated with hospital information systems.
- Deployed services on IIS Server with authentication and persistent storage.

SelectSportsss — Full-Stack Developer

Flutter, Next.js, PostgreSQL, Firebase, AWS S3, TypeScript

- Developed a real-time football slot booking platform for users and venue hosts.
- Built an admin dashboard to manage users, bookings, and media.
- Integrated AWS S3 for scalable and secure media storage.

Waste2Wealth — Backend Developer

Node.js, Express, MongoDB, Next.js

- Implemented backend services for a scrap management platform.
- Enabled real-time communication between vendors and customers.

EDUCATION

Master of Computer Applications (MCA)

2022 – 2024

Chandigarh University (*CGPA: 8.03*)

Bachelor of Computer Applications (BCA)

2018 – 2021

Dr. B. R. A. Bihar University (*Score: 80%*)

ACHIEVEMENTS

- **1st Place** — Problem Solving Competition, GDSC Chandigarh University (Nov 2023)
- **2nd Place** — Project Expo for Waste2Wealth (Nov 2023)
- **3rd Place** — Talent Hunt (Web Development), Uniford Foundation (Oct 2023)
- **3rd Place** — Project Expo for CU Buddi (May 2023)