Raunak Agarwal

📞+91-9664478409 ✉raunakaga12@gmail.com

🦊 Raunak2004 🐙 Raunakaga2004 💼 raunakagarwal12 🌐 www.raunakagarwal.me

Summary

Final-year B.Tech CSE (AI & ML) student skilled in Java, Python, SQL, DSA, MERN, and AI-powered solutions with OOP and efficient software development experience.

Education

- Pursuing B.Tech in Computer Science and Engineering (Specialization in AI & ML with Xebia), JECRC University (2022–2026); currently maintaining a 9.1 CGPA through 6 semesters

Skills

- **Languages:** Java, SQL, JavaScript, Typescript, Python, C++, C.
- **Web Development**: MERN, Git and Github, trpc, Tailwind, Zod, Multer, JWT, Django with Jinja template, Websockets, Prisma ORM, Next.js, NextAuth, Turborepo, Figma.
- **DevOps & Deployment:** Docker, CI/CD concepts, Cloudflare Workers, Render, Vercel, AWS.
- **Tools and Platforms:** Intellij, VS code, Netbeans, Codeblocks, Dev C++, Jupyter, and Google Colab.
- **Database**: MongoDB, PostgreSQL, MySQL
- **Concepts**: Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS, Data Analysis, Machine Learning, and Python libraries with pandas, numpy, matplotlib, and seaborn.
- **Soft Skills:** Problem-solving and analytical thinking, teamwork and communication, adaptability, motivated self-learner with a growth mindset, professional integrity, and time management.

Projects

- **Sudoku Game Simulation**
  - Fully working console-level Sudoku Game Simulation with various features like a pencil and undo.
  - Used OOPs and DSA concepts like stack, Arrays, HashSet, Backtracking, and recursion. Performed debugging and functional validation testing to ensure correctness.
  - Tech Stack: Core Java
- **Second Brain**
  - Developing a personal knowledge management web app to organize and search notes, links, and documents efficiently. Planning integration of Elasticsearch, vector database, and Gemini AI model for intelligent semantic search and query response.
  - Tech Stack: MERN Stack, Elasticsearch, Vector DB, Gemini API
- **CompileStorm**
  - Created an online compiler supporting multiple languages with real-time code execution and debugging.
  - Tech Stack: MongoDB, mongoose, Zod, React, Express, Node, Javascript, Piston API
- **Locked In** (Currently Building)
  - An all-in-one productivity web app featuring a Pomodoro timer, habit tracker, time blocking, and real-time productivity reports, with self-written machine learning algorithms for insights and performance tracking.

Experience

- **Xebia Internship — AI/ML Domain | June to July**
  - Contributing to real-world projects and enhancing skills in machine learning, data preprocessing, model building, and AI concepts under expert guidance.

Achievements

- Solved 520+ questions on LeetCode with Contest Ranking in the top 20%.
- Allen Tallentex ranked 2nd in 2019.
- SOF(Science Olympiad Foundation) IMO Rank 3 in 2018-19 and IMO Rank 2 in 2017-18.

Certifications

- Web development certificate by Teachnook
- Applications of AI for Anomaly Detection with Nvidia
- Develop Solutions for Microsoft Azure