

RAHUL KUMAR

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RahulKumar

</> Leetcode

Codeforces

EDUCATION

National Institute Of Technology, Karnataka

Master of Computer Applications

CGPA: 9.26

Mangaluru, India

Shivaji College, University Of Delhi

B.Sc (Hons.) Physics

CGPA: 8.79

New Delhi, India

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- DBMS
- OOPS Concept
- Web Development
- Machine Learning

PROJECTS

Automated Sudoku Solver | Python, PyAutoGUI, Backtracking Algorithm

07/2024

- Developed a Python-based Sudoku solver using the recursive backtracking algorithm to solve any valid 9x9 puzzle.
- Automated GUI interaction using PyAutoGUI to input solved values directly into a Sudoku application.
- Integrated accurate cell navigation logic with controlled keypresses (arrows, digits) to simulate human input.
- Used `time.sleep()` to control execution speed, ensuring reliable automation without input errors.
- Created a reusable print function that simulates keystroke-based grid input with visual alignment.
- Strengthened skills in recursive algorithms, GUI automation, and simulated interaction with external applications.
- [Download](#)

Postify | React.js, Node.js, MongoDB, Tailwind CSS, Groq LLaMA-3

01/2025

- Built a full-stack blogging platform with post creation, editing, user authentication, and secure session handling using the MERN stack.
- Integrated an AI assistant using Groq's LLaMA-3 (8B) model to help users auto-generate and refine blog content in real-time.
- Maintained conversational context and loading states using React hooks and LangChain integration.
- Designed a clean, responsive UI with Tailwind CSS and enhanced UX using Framer Motion for animations.
- [Live Project](#)

AI-Powered Data Analyst App | Streamlit, Pandas, DuckDB, Gemini 1.5 Flash

05/2025

- Built an interactive Streamlit application for AI-driven data analysis of CSV and Excel files.
- Integrated Google's Gemini 1.5 Flash model to generate SQL queries and insights from user questions.
- Implemented preprocessing with pandas to clean, convert, and format uploaded datasets intelligently.
- Used DuckDB with a semantic model to allow fast and accurate SQL-based querying of structured data.
- Enabled users to upload datasets, ask natural language questions, and receive both SQL and final answers.
- Demonstrated advanced skills in LLM integration, data cleaning, and agent-based architecture.
- [GitHub Repo](#)

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, NoSQL, HTML, CSS

Developer Tools: VS Code, IntelliJ Idea Ultimate

Technologies/Frameworks: GitHub, ReactJS, NextJS(SSR/SSG) NodeJS, ExpressJS, Git, Mongo

CERTIFICATIONS

- The Complete SQL Bootcamp - Jose Portilla, Pierian Training
- Statistics For Machine Learning - GreatLearning

CODING PROFILE

- Secured AIR 76 in NIMCET among approximately 25,000 students.
- Solved 290+ problems on Codeforces.
- Solved 800+ problems on LeetCode.
- Solved 200+ problems on GeeksforGeeks (GFG).
- Earned the Annual Badge 2024 and 365 Days Coding Badge on LeetCode.