

Ayush Ojha

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EDUCATION

- RV College of Engineering** Bangalore, India
 - B.E. Computer Science & Engineering (Data Science); GPA: 8.73* *December 2022 - June 2026*
 - Courses: Object Oriented Programming, Introduction to C & C++, Data Structures & Algorithms, Operating Systems, AI & ML, Computer Networks, DBMS, Natural Language Processing*

SKILLS SUMMARY

- Languages:** JAVA, C, C++, Python, JavaScript, Dart, SQL
- Frameworks:** Flutter, Spring Boot, React, NLTK
- Tools & Technologies:** GIT, Firebase, MySQL, RAG, Fine Tuning, Feature Extraction
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

PROJECTS & EXPERIENCE

- Seminar Hall Management System:**
 - Developed a Spring Boot application with role-based access control to manage 4 seminar halls, handling 100+ bookings monthly.
 - Implemented user authentication and authorization using Firebase and MySQL, ensuring 99.9% uptime.
 - Designed a React-based frontend with a calendar view and deployed it on Netlify, with backend hosting on AWS.
- Flutter Movie Viewer:**
 - Built a Flutter movie review app integrating Firebase Firestore to store and retrieve 1000+ user reviews using TVmaze API.
 - Developed 4 different screens: Splash Screen, Home Screen, Search Screen & Details Screen for user convenience.
 - Enabled real-time movie rating (5-star scale) and comments with dynamic data loading using Streams.
- Algorithm Visualizer:**
 - Developed a visualization tool with HTML, CSS, and JavaScript, demonstrating pathfinding and sorting algorithms. Optimized animations for real-time visualization, reducing execution lag by 30%, improving user interaction.
 - Implemented 4 shortest path algorithms (Dijkstra's, A*, BFS, DFS) and 2 sorting algorithms (Selection Sort, Bubble Sort).
- Social Media App Prototype:**
 - Designed and developed a Flutter-based social media app with Google Sign-Up, profile customization, image posting, and global chat.
 - Integrated Firebase Authentication & Firestore for secure user management and real-time data syncing, tested on 5 emulators.

PUBLICATIONS

- Hallucination Mitigation in Legal AI Systems (Work in Progress):** Focused on minimizing hallucinations in AI generated legal responses by implementing citation detection, verification, and iterative correction mechanisms. Utilizing Retrieval Augmentation Generation (RAG) and exploring use of Knowledge Graphs to provide accurate context, ensuring reliable and precise outputs in the legal domain. Testing the implementation with over 100 prompts.

CERTIFICATIONS & ACHIEVEMENTS

- C++ Programming: From Beginner to Beyond, by Udemy
- Linux Kernel Programming, by Udemy
- Data Science for Engineers Course, by NPTEL (score: 78%)
- Over 300 questions solved on Coding Platforms like LeetCode, Codeforces, and Codechef.

VOLUNTEER EXPERIENCE

- Founder & Treasurer, ACM RVCE** Bangalore, India
 - Organized Seminars & Hackathon, Event Head of ACM India Summit '24* *Jan '24 - Present*
- Member & Organizer, Rotaract RVCE** Bangalore, India
 - Organized events including Trekking & Blood Donation Camps* *Jan '23 - Aug '24*