Krish Joshi

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Education

- **VIT Bhopal University** — Madhya Pradesh, India
  B.Tech in Computer Science and Engineering; CGPA: ***8.83/10*** — *Expected May 2027*

Previous Education: *XII (SSC) 81% (2023), X (SSC) 82.80% (2021)*

Skills Summary

- **Languages:** C++, Python, Kotlin, SQL (PostgreSQL, SQLite), HTML, CSS, JavaScript, Dart
- **Technologies:** MERN Stack (MongoDB, Express.js, React, Node.js), Flask, Tailwind CSS, Prisma ORM, Flutter
- **Core CS Subjects:** Data Structures & Algorithms, Computer Networks, DBMS, Operating Systems, Theory of Computation
- **Platforms:** Windows, Linux (Ubuntu)
- **Strengths:** Competitive Programming, Algorithmic Problem Solving, Strong Mathematical Foundation

Projects

- **CSES Chrome Extension (490+ Users)**:
  - Designed and published a productivity-focused Chrome extension to enhance the CSES Problem Set experience, currently used by 490+ users.
  - Engineered problem-level note tracking and performance analytics with secure client-side storage (Chrome Local Storage), ensuring complete data privacy.
  - Implemented advanced sorting, filtering, and tagging systems based on difficulty metrics (solvers, acceptance rate, categories) to enable structured problem solving.
  - **Link:** Chrome Web Store — GitHub
- **Virtual Classroom Management System**:
  - Built a full-stack platform using Python (Flask), React, and Tailwind CSS with OCR-based PDF evaluation.
  - Implemented handwritten document analysis using OCR and automated relevance checking.
  - Developed intelligent feedback and plagiarism detection by comparing multiple submissions.
  - Integrated computer vision techniques to streamline grading workflows for educators.
- **AI-Powered File Search & Smart Storage System (In Progress)**:
  - Building a high-performance Windows desktop application in C++ with SQLite-based persistence and optimized indexing.
  - Implemented hash-based filename lookups for O(1) access and Trie-based structures for real-time autocomplete.
  - Designing AI-driven content-based storage recommendations that automatically suggest and create folder hierarchies based on filename and file type.
  - Developing a voice-controlled file manager that retrieves files using natural language queries (e.g., file type, approximate creation date), ranking results by relevance.
  - Introducing an optional time-based auto-deletion feature with customizable expiration to manage temporary academic files efficiently.
  - Supporting suffix-based queries and incremental indexing using filesystem monitoring for real-time updates.

Achievements

- **Chess Excellence:** Chess.com Rapid Rating of **2150** (top 0.1 percentile), reflecting strong analytical thinking.
- **Competitive Programming:** Codeforces Rating **1673** and solved **200+** problems on LeetCode across DSA, graphs, DP, and advanced algorithms.