Krish Joshi

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Education

- **VIT Bhopal University** — Madhya Pradesh, India
  B.Tech in Computer Science and Engineering; CGPA: ***8.73/10*** — *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 (450+ Users)**:
  - Designed and published a productivity-focused Chrome extension to enhance the CSES Problem Set experience.
  - Implemented per-problem personal notes stored securely in Chrome local storage for tracking hints and mistakes.
  - Added global and category-wise statistics to track solved and attempted problems.
  - Integrated sorting and filtering tools based on number of solvers, acceptance rate, and problem categories.
  - Displayed problem tags (DP, graphs, greedy, etc.) and expected time complexity for guided problem solving.
  - Built automation features including auto-login and automatic dark/light theme switching.
  - Ensured complete privacy by storing all data locally without any external data collection.
  - **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.
- **File Search System (In Progress)**:
  - Developing a high-performance Windows desktop application using C++ for indexing and SQLite for persistence.
  - Designed hash-based filename lookups for O(1) access and Tries for real-time autocomplete.
  - Implementing suffix-based queries and incremental indexing via filesystem monitoring.

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.