

Krish Joshi

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EDUCATION

- VIT Bhopal University** Madhya Pradesh, India
B.Tech in Computer Science and Engineering; CGPA: 8.58/10
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 (especially for mobile development)
- **Platforms:** Windows and Linux (Ubuntu).
- **Skills:** Experience with AWS, GCP, Firebase, MS Excel, Word and PowerPoint. Excellent at Maths, Competitive programming, DSA and other core concepts of cse

PROJECTS

- **Virtual Classroom Management System:**
 - Built a full-stack platform with OCR (Microsoft Vision) for document analysis and an LLM for real-time feedback using Python, Flask, React, and Tailwind CSS.
 - Developed functionality to process handwritten PDF inputs through OCR technology for automated document analysis.
 - Implemented intelligent content evaluation system that analyzes PDF relevance to specified questions and provides comprehensive feedback.
 - Integrated Google Document API and computer vision technologies to enhance document processing capabilities.
 - Engineered plagiarism detection system that compares solutions against multiple submissions to generate similarity percentage reports.
 - Gained expertise in computer vision technologies and plagiarism detection algorithms through hands-on development.
 - Successfully deployed a comprehensive educational platform that streamlines grading and feedback processes for educators.
- **File Search System (In progress):**
 - Building a high-performance desktop application for Windows using C++ (core indexing), SQLite (persistent storage), and Python Tkinter (frontend UI).
 - Using hash maps to map filenames to file paths for O(1) lookup.
 - Designing a prefix tree (Trie) for real-time autocomplete and a suffix tree for extension-based queries.
 - Leveraging SQLite with indexed queries to persist and reload file indices efficiently, avoiding redundant computations.
 - Planning support for incremental indexing using file system watchers for real-time updates.
- **Android Attendance App (In Progress):**
 - Developing Mobile application using Flutter with integrated face recognition capabilities for automated attendance tracking.
 - Implementing OpenFace open-source deep neural network model for accurate facial identification from images.
 - Integrating PostgreSQL database system for reliable storage and management of attendance records.
 - Building robust face detection and recognition pipeline to automatically mark attendance based on facial recognition results.

ACHIEVEMENTS

- **Excellent Cognitive Abilities:** Proven by a [chess.com](#) Rapid Rating of **2150** (among the top 0.1 percentile), showcasing sharp analytical and strategic thinking.
- **Top Competitive Programmer:** Consistently placed in the **top 5%** in university-level coding contests and hackathons, demonstrating excellent problem-solving skills.
- Active in competitive programming with a Codeforces Rating of **1514** (Specialist) and **150+** problems solved on LeetCode.