

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) 83% (2023), X (SSC) 84% (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

- **Codeforces:** Rating 1350 (Specialist) — codeforces.com/profile/krish_vj
- **LeetCode:** Solved 150+ problems — leetcode.com/u/krish-vj/
- Consistently placed in the **top 5%** in university-level coding contests and hackathons, demonstrating excellent problem-solving skills.
- **Competitive Chess Player:** chess.com Rapid Rating of 2150 (among top 0.1 percentile), demonstrating excellent cognitive abilities.