

# Kartik Rawat

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B.Tech Computer Science Engineering student specializing in **Education Technology** with hands-on experience in C++, Java, Python, C, React, HTML, CSS, and JavaScript. Experienced in building full-stack applications, machine learning-based systems, and real-time AI solutions with a strong foundation in educational systems research.

## EDUCATION

2024 – 2028	<b>VIT Bhopal University</b> , Madhya Pradesh	B.Tech in <b>Computer Science and Engineering</b>	CGPA: 9.75/10
2024	<b>Government Model School</b> , Chanderi, Ashoknagar	Class XII	95.6%
2022	<b>Government Model School</b> , Chanderi, Ashoknagar	Class X	95.4%

## WORK EXPERIENCE & PROJECTS

**Software & Machine Learning Developer**   **Self-Driven Projects**   Aug 2025   Oct 2025

- Developed a full-stack real-time content generation system with smart doubt-solving and focus enhancement features.
- Implemented backend APIs for real-time practice sessions, performance tracking, and leaderboards.
- Integrated ML features using OpenCV, TensorFlow, face detection, and voice detection libraries.

**Backend & Extension Developer**   **Educational Platforms**   Dec 2025

- Built a full-stack student LeetCode solver and interview simulator for guided learning.
- Developed Node.js backend with REST APIs and integrated Web Speech API.
- Enabled real-time voice interaction via browser extensions and backend communication.

**Research Experience**   **AI in Education**   Oct 2025   Dec 2025

- Conducted research on AI-driven personalized learning systems.
- Reviewed research articles and journal papers on intelligent tutoring systems and learning analytics.
- Applied research insights to design scalable, data-driven educational platforms.

## ACHIEVEMENTS

- District Topper (Ashoknagar)** in Higher Secondary Education; honored by the Chief Minister and District Collector.
- Solved **400+ DSA problems** across LeetCode and GeeksforGeeks; earned **5 in C++ on HackerRank**.
- Admitted under the prestigious **STAR Student Category** at VIT Bhopal.
- Solved **230+ DSA problems** on CodeChef using C++.

## SKILLS & CERTIFICATIONS

<b>Technical</b>	C++, Java, Python, C, Data Structures & Algorithms, Machine Learning (Basic)
<b>Web</b>	React, HTML, CSS, JavaScript
<b>Tools</b>	Git, GitHub, Firebase, SQL (Basic), OpenCV, TensorFlow, MATLAB
<b>Soft Skills</b>	Problem-solving, Teamwork, Communication, Adaptability, Quick Learner
<b>Certifications</b>	NPTEL (Generative AI), Applied Machine Learning in Python (Coursera), Fundamentals of AI & ML