

Ayush Bijalwan

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EDUCATION

- **Vellore Institute Of Technology, Bhopal** Madhya Pradesh, India
Bachelor of Technology - Computer Science; GPA: 8.80 *November 2022 – November 2026*
- **Doon International School, Dehradun** Dehradun, India
Class XII - 90.8%
- **Doon International School, Dehradun** Dehradun, India
Class X - 96.8%

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript, SQL
- **Frontend:** React, Vite, Tailwind CSS, HTML, CSS, Gsap, Three.js
- **Backend:** Node.js, Firebase, Express.js
- **Databases & Platforms:** PostgreSQL, MySQL, AWS, Git, GitHub

PROJECTS

- **Fire-TV-Recommendation-App** — [GitHub Link](#)
 - Architected a full-stack Fire TV clone with a **React** and **Tailwind CSS** frontend, and a **Python-Flask** backend serving a REST API.
 - Engineered a hybrid recommendation engine using collaborative filtering (SVD) and content-based filtering (cosine similarity), resulting in a 15 % increase in user engagement with recommended content.
 - Leveraged **Firebase Firestore** for scalable user data management and utilized **Pandas** to efficiently process a large movie data set.
- **Converso** — [GitHub Link](#)
 - Developed a full-stack Learning Management System (LMS) SaaS platform using **Next.js**, with secure user authentication and database management handled by **Supabase**.
 - Engineered a complete subscription and payment system by integrating the **Stripe API** for seamless recurring billing and financial transactions.
 - Implemented a real-time, interactive teaching environment by integrating **Vapi** to power an AI vocal agent for live, voice-driven learning sessions.

CORE COMPETENCIES

- Designed and deployed scalable full-stack applications, featuring responsive React user interfaces and optimized server-side APIs with PostgreSQL and MongoDB.
- Solved 300+ data structure and algorithm challenges in LeetCode and Codeforces, demonstrating advanced problem-solving and analytical abilities.
- Proficient in modern CI/CD workflows using Git for version control and deployment of applications in cloud environments like AWS, with hands-on familiarity with Docker containerization.
- Experienced in the end-to-end Software Development Lifecycle (SDLC), from requirements analysis to deployment and maintenance, following Agile principles.

HONORS AND AWARDS

- StartupWrek'22 1st position VIT Bhopal University
- Innwave Cognizance'23 IIT Rourkee Participation
- IIT kharagpur Ecell TechVridhhi'17 5th
- Amazon Hackon 5.0 Finalist'25
- Completed Graph Theory Camp by AlgoUniversity

ACTIVITIES & CERTIFICATIONS

- Member of the inter-college football team; achieved Runner-Up in Advitya'24 Sports Fest and won the intra-hostel 5-a-side futsal tournament.
- Certified in Web Development and Python via the "100 Days of Code" bootcamp by Angela Yu.
- Completed "Learn Ethical Hacking from Scratch" (Udemy) and "DevOps and Blockchain Fundamentals" (IBM) to build a strong foundation in cybersecurity and emerging tech.