

# KRISHNA GARG

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## Education

### Vellore Institute of Technology

B.Tech in Computer Science and Engineering

Sep 2022 – May 2026

- CGPA: 8.62

## Technical Skills

**Languages:** C++, JavaScript, TypeScript, SQL

**Backend:** Node.js, Express.js, REST APIs, MVC Architecture, Auth (JWT, Role-Based Access)

**Frontend (Basic):** React, Next.js

**Databases:** MongoDB, MySQL, PostgreSQL

**AI Integrations:** Generative AI APIs (Google Gemini), Document-Based AI Processing

**Tools & Platforms:** Git, GitHub, Postman

## Projects

### AI Learning Assistant — Generative AI-Powered MERN Platform

Jan 2026

*Node.js, Express.js, MongoDB, Mongoose, React, Google Gemini AI*

- Architected a full-stack platform that transforms uploaded **PDF documents** into AI-driven study workflows.
- Built and owned **20+ REST APIs** for document ingestion, AI processing, quizzes, flashcards, and dashboards.
- Designed **MongoDB schemas** for documents, chat history, flashcards, quizzes, and progress tracking.
- Implemented **context-aware AI chat** by grounding Gemini responses on document content and user queries.
- Developed **AI generation pipelines** for summaries, flashcards, quizzes, and concept explanations.
- Implemented backend logic for **quiz evaluation and progress analytics** to track accuracy and learning activity.

### PrepWise — AI Mock Interview Platform

Nov 2025

*Next.js, TypeScript, Firebase, Vapi AI, Google Gemini*

- Built an AI-powered mock interview platform simulating real-time interview conversations and feedback flows.
- Integrated **Vapi AI voice agents** to conduct interviews and generate structured interview transcripts.
- Implemented **Gemini-based evaluation pipelines** to summarize responses and generate interview feedback.
- Engineered backend workflows to orchestrate **voice input, AI processing, and feedback generation**.
- Managed authentication and persistence using **Firebase** for user profiles and interview history.
- Handled reliable data flow between frontend, AI services, and database with robust error handling.

### Video Management Platform — Backend System

Jun 2025

*Node.js, Express.js, MongoDB, Mongoose, JWT, Multer*

- Designed and owned the backend for a video platform supporting uploads, playlists, subscriptions, and watch history.
- Built **15+ RESTful APIs** with secure **JWT-based authentication** and role-level authorization.
- Implemented **file upload and media handling** using Multer with validation and access control.
- Designed normalized **MongoDB schemas** for users, videos, subscriptions, and watch history.
- Optimized **MongoDB aggregation pipelines** to efficiently compute feeds, history, and subscription data.
- Structured the codebase using a modular **MVC architecture** to improve maintainability and scalability.

## Achievements

### Solve'A'Thon 2024 (VIT Chennai) — Top Rank (VIT Bhopal Cohort)

Mar 2024

- Ranked **1st** among VIT Bhopal teams in a multi-campus hackathon with 100+ competing teams.

### National Semifinalist — Flipkart GRiD 7.0

Jul 2025

- Reached national semifinals, placing among top teams out of **1.5 lakh+** participants nationwide.

### Full-Time Offer — LTIMindtree

Nov 2025

- Secured a full-time offer based on performance in data structures, backend fundamentals, and interviews.

### LeetCode Global Ranking — Top 26%

- Solved **450+** DSA problems, achieving a global ranking in the top 26%.