

Ansh Agarwal

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EDUCATION

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science

Sept 2022 – June 2026

CGPA: 8.93/10

SKILLS

Programming Languages: Python, JavaScript, TypeScript, C++, Dart

Backend & Data Technologies: REST APIs, Firebase, MySQL, MongoDB

Web & Frameworks: React, Flutter, HTML, CSS, Tailwind CSS

Tools & Platforms: Git, AWS, Tableau, Plotly, Android Studio

AI/ML Libraries: Scikit-learn, TensorFlow, Keras, PyTorch, SpaCy, OpenCV, ARIMA

PROJECTS

Aqua Sense AI – Water Quality Monitoring Dashboard

[Link](#)

ARIMA, Firebase, Tableau, Plotly, Chart.js, React, TypeScript, Tailwind CSS, TypeScript

- Validated data workflows from 44+ stations across 28 states, ensuring reliable real-time dashboards.
- Built ARIMA forecasting models (92% accuracy) and stress-tested anomaly detection scenarios.
- Designed Tableau/Plotly reports surfacing trends and validated API/CSV/geo-visualization data flows.

PrepWell – AI Mock Interview

[Link](#)

Firebase, Tailwind CSS, TypeScript, shadcn/ui, Vapi AI (voice), Google Gemini

- Delivers voice-enabled mock interviews where a **Vapi AI** agent conducts the session and Gemini generates role-specific, adaptive questions.
- Provides instant, structured feedback with final assessment, category-based scores/comments, saved transcripts, and strengths/improvement tips.
- Validated workflows of voice-enabled AI mock interviews by simulating diverse real user scenarios.
- Lets users create and manage interview sessions, review feedback history, and run personalized, job-specific simulations to build confidence and improve performance.

QuizCrafter – Advanced MCQ Generator Using GENAI

[Link](#)

React, Gemini API, SpaCy, BeautifulSoup, pdfkit

- Built an AI-powered quiz platform supporting **3-50** questions and **3-6** answer options with multi-answer and creativity controls, boosting engagement of customers.
- Added URL-to-MCQ generation, web content parsing, and export to print-ready PDFs with separate answers.

CERTIFICATIONS

- **GenAI using IBM watsonx** — IBM, Apr 2025: prompt engineering, model deployment (virtual hands-on).
- **MongoDB Developer Path** — MongoDB, Jul 2025: Scalable apps with schema design, indexing, and performance tuning.
- **Saviynt Identity Security for AI Age** — Saviynt, Aug 2025: identity security for AI; *8 CPE hours*.
- **Full Stack Developer (MERN)** — SmartBridge, Apr 2025 (End-to-end MERN app deployment)

ACHIEVEMENTS & LEADERSHIP

- **Participant, Walmart Global Tech Sparkathon:** Participated in Global Tech's open innovation challenge,
- **Semi-Finalist, Flipkart GRiD 7.0:** Advanced to Round 3, led a 4-member team among 160k+ participants.
- **LeetCode Competitive Programming:** Solved 475+ DSA problems, achieved MySQL Badge, contest rating-1459. - LeetCode.