Ansh Agarwal

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EDUCATION

VIT Bhopal University *Sept 2022 – June 2026*
B.Tech in Computer Science *CGPA: 8.93/10*

TECHNICAL SKILLS

Languages & Tools: C++, Python, JavaScript, Typescript, Dart, Flutter , Git
Web & Cloud: HTML, CSS, React, Next.js, Node.js, Tailwind CSS, AWS
Data & ML: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Tableau, MySQL, MongoDB

PROJECTS

Aqua Sense AI – Water Quality Monitoring Dashboard GitHub
Python, ARIMA, REST APIs, Firebase, Tableau, Plotly, Chart.js, React, Tailwind CSS, TypeScript
- Developed a real-time dashboard tracking water quality at **44+ stations in 28 states**, analyzing 9+ parameters (pH, DO, BOD, turbidity, etc.) with automatic NSF WQI computation.
- Implemented ARIMA forecasting **(92% accuracy)** to predict WQI trends up to 15 years ahead.
- Integrated CSV upload, AI anomaly detection, geographic visualization, and Tableau-based analytics.

PrepWell – AI Mock Interview GitHub
Next.js, Firebase, Tailwind CSS, 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.
- 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 GitHub
Python, React, TypeScript, Gemini API, JWT, 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 by **35%**.
- 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).
- **Full Stack Developer (MERN)** — SmartBridge, Apr 2025: built deployed MERN apps; RESTful API integration with authentication.
- **MongoDB Node.js Developer Path** — MongoDB, Jul 2025: Gained expertise in building scalable applications with MongoDB and Node.js, including schema design, indexing and performance tuning.
- **Saviynt Identity Security for AI Age** — Saviynt, Aug 2025: identity security for AI; *8 CPE hours.*

ACHIEVEMENTS

- **Participant, Walmart Global Tech Sparkathon:** Participated in Walmart Global Tech's open innovation challenge, Sparkathon, contributing innovative solutions in a competitive hackathon setting.
- **LeetCode Competitive Programming:** Solved 475+ DSA problems (C++) and also achieved MySQL Badge ; contest rating 1,459 - LeetCode.
- **Flipkart GRiD 7.0:** Advanced to Round 3 of Flipkart's flagship national tech challenge, ranking among the top participants out of 160,989 registrations.