

Ansh Agarwal

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🔗 Portfolio

LinkedIn

Github

EDUCATION

Vellore Institute of Technology, Bhopal
B.Tech in Computer Science & Engineering

Sept 2022 – June 2026
CGPA: 8.93/10

TECHNICAL SKILLS

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

Frontend & Mobile: React, Flutter, HTML, CSS, Tailwind CSS, Android Studio, System Design

Backend & Databases: REST APIs, Firebase, MySQL, MongoDB, AWS (EC2, S3), Git, Co-pilot, Qodo Merge

AI/ML & Visualization: TensorFlow, Scikit-learn, Numpy, PyTorch, SpaCy, Plotly, Tableau, PowerBI

EXPERIENCE

Ericsson

Jan 2025 - June 2025 Trainee, EricssonEdge Academia Program 2.0 — Remote

- Selected among top 500 candidates from 16,000+ applicants in a competitive 6-month program focused on 5G, AI/ML, and IoT technologies
- Developed expertise in network automation and cloud technology through expert-led workshops and hands-on project work and earned global certification from Ericsson validating proficiency in cutting-edge telecommunications.

PROJECTS

Aqua Sense AI – Water Quality Monitoring Dashboard

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

[Link](#)

- Built a real-time dashboard to track **9+ parameters** (pH, DO, BOD, etc.) across 44+ stations in 28 states, automating the calculation of the NSF Water Quality Index (WQI) for immediate insights.
- Developed an **ARIMA (5,1,0)** forecasting model to predict WQI trends 15 years into the future with **92% accuracy**, enabling proactive environmental management.
- Engineered features for geographic visualization, AI-powered anomaly detection, and seamless integration with Tableau to validate and surface trends from diverse data flows (CSV).

PrepWell – AI Mock Interview

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

[Link](#)

- Engineered a voice-enabled mock interview platform using **Vapi AI** and **Google Gemini** to conduct adaptive, role-specific practice sessions and generate real-time questions.
- Developed an automated feedback system that provides structured evaluations with category-based scores, saved transcripts, and actionable improvement strategies.
- Validated system performance by simulating **50+** diverse user scenarios and enabled users to manage their interview history for targeted practice.

QuizCrafter – Advanced MCQ Generator Using GENAI

Python, React, TypeScript, Gemini API, SpaCy, BeautifulSoup, pdfkit

[Link](#)

- Developed an AI-driven platform that reduces quiz creation time by 80% by automating the generation of **3-50 questions** with **3-6 answer options**, multi-answer support, and creativity controls.
- Extended functionality by integrating **web scraping** to parse articles and generate MCQs directly from URLs, expanding data source flexibility.
- Designed a **one-click PDF export** system with an answer key to produce printable study guides.

CERTIFICATIONS

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

ACHIEVEMENTS & EXTRACURRICULAR

- Semi-Finalist, Flipkart GRiD 7.0:** Advanced to Round 3, led a 3-member team among 160k+ participants.
- Walmart Global Tech Sparkathon:** Contributed to an open innovation challenge focused on developing technological solutions for global retail challenges.
- LeetCode:** Solved 490+ DSA problems, achieved MySQL Badge, contest rating-1459. - [LeetCode Profile](#).
- Core Member of Microsoft Technical Club, VIT Bhopal:** Actively participated in club activities, technical workshops and coding events.