Ansh Tiwari

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EDUCATION

VIT Bhopal University, Bhopal *June 2022 – June 2026*
B.Tech in Computer Science CGPA: 8.99/10

City Model College, Kanpur
Class 12th ICSE Board: 88.6% *Mar 2020 – Mar 2021*
Class 10th ICSE Board: 87.5% *Mar 2018 – Mar 2019*

TECHNICAL SKILLS

Languages: Python, C++, JavaScript
Web Development: HTML, CSS, Node.js, React, MongoDB, Express
Tools: Git, VS Code, Postman, AWS
Machine Learning: Supervised Learning, Deep Learning, NLP

ACHIEVEMENTS & RESPONSIBILITIES

- Ranked in the **top 7% out of 3800+ students** in the Computer Science batch at VIT Bhopal.
- **Solved 300+ DSA problems** on platforms like GeeksforGeeks and LeetCode.
- **Top 7 finalist** out of 150+ teams in a college-level hackathon, solving real-world issues in 24 hours.
- **Student Ambassador** for GFG, Internshala, and Unstop, promoting tech opportunities.
- **Core Committee Member** for college fests, managed logistics for 1000+ attendees.

PROJECTS

City Facts AI Agent – AI-Orchestrated Fun Fact Generator *Jan 2025 – May 2025*
Technologies: YAML, Meta LLaMA 4, Prompt Engineering, EC2

- Designed NLP logic to extract sentiment-aligned facts from Wikipedia using semantic similarity scoring and rule-based filters.
- Centralized city-wise data processing via YAML agent workflows, improving deployment speed by 60% and saving 10+ hours/week for quality control.
- Future scope: UI integration and scaling to 1000+ facts/day at less than $0.001 per fact.

MockMate AI – AI-based Interview Simulator *Dec 2024 – Feb 2025*
Technologies: Next.js, React, Gemini AI, Drizzle ORM, Clerk

- AI mock interview simulator using Gemini AI for realistic practice.
- Led full-stack build; cut backend latency by 30% with Drizzle ORM.
- Planned upgrades: analytics dashboard, speech-based Q&A for 500+ monthly users.

Solar Panel Efficiency Prediction — Zelestra ML Hackathon *Jan 2025*
Technologies: Python, XGBoost, CatBoost, Optuna, GridSearchCV, Pandas, Matplotlib

- Built ML model to forecast solar panel efficiency from weather and sensor data (20K+ rows).
- Achieved 0.0996 RMSE using XGBoost and CatBoost with tuning via Optuna/GridSearchCV.
- Ranked Top-30 out of 500+ teams with leaderboard score of 89.89.
- Reduced feature space from 17 to 11 using correlation analysis and engineering.

CERTIFICATIONS

- Intro to Machine Learning, Intermediate ML – Kaggle
- Bits and Bytes of Computer Networking – Google (Coursera)
- MERN Full-Stack Developer – ETHNUS