Aniruddha Gupta

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EDUCATION

Vellore Institute of Technology *Bhopal, Madhya Pradesh*
B.Tech in Computer Science and Engineering; **CGPA: 8.52** 2022 - 2026

JOB SIMULATION

Bank of America Sales and Trading Analyst Job Simulation — Forage   GitHub
- Completed an intensive job simulation focused on analyzing global market trends, trading strategies, and delivering client-centric financial solutions within the Sales & Trading division.
- Conducted data analysis using Excel and Bloomberg to identify financial trends and assess market dynamics.
- Developed client proposals with data-driven investment strategies for diversification, sustainability, and moderate growth.

PROJECTS

Smart Housing Valuation Predictor — NumPy, Pandas, Scikit-learn, Matplotlib, Python   GitHub
- Evaluated 3 machine learning models (Linear Regression, Decision Tree, Random Forest) using k-fold cross-validation, identifying the optimal algorithm with the lowest RMSE.
- Built a robust Scikit-learn preprocessing pipeline using stratified sampling, successfully boosting model accuracy by 15%.
- Deployed ColumnTransformer to fully automate data transformation for 10+ diverse features, making the model production-ready.

NammaYatri Trips Dashboard — SQL, PowerBI, MS Excel   GitHub
- Extracted critical business metrics from 2.1K+ ride searches by authoring 25+ complex, optimized SQL queries.
- Created a responsive Power BI dashboard with 6+ live visuals to track essential KPIs like 751K driver earnings and a 45% conversion rate.
- Mapped crucial trip hotspots across 15+ assemblies, providing actionable geo-visual insights to guide operational strategy.

Connectify — Jupyter Notebook, JSON, Python   GitHub
- Developed a custom Python recommendation engine analyzing 1,000+ user interactions to generate suggestions with 99% validated accuracy.
- Processed and structured JSON datasets, achieving a 40% reduction in data redundancy and enhancing reliability.
- Applied graph traversal algorithms to identify key influencers and map community structures within the network.

SKILLS

Languages: Python, Java, SQL, JavaScript   **Frameworks**: NumPy, Pandas, Scikit learn, Matplotlib
Databases: MySQL, PostgreSQL   **Tools & Technologies**: Power BI, MS Excel, Jupyter Lab, GitHub

ACHIEVEMENTS

5 Star SQL HackerRank Coder —
  Solved 50+ SQL challenges on HackerRank, demonstrating strong query writing and optimization skills.
  Demonstrated proficiency in SQL joins, aggregations, and data transformations through challenges.

Oracle Certified Data Science Professional — Validated expertise in cloud-based data science.

International Mathematical Olympiad Medalist showcasing strong mathematical and reasoning abilities.

POSITION OF RESPONSIBILITY

Volunteer, Khushbu Welfare Society (NGO)
  Taught computer skills to 100+ underprivileged children, fostering digital literacy and enhancing communication.

Committee Member, Advitya 2025
  Managed logistics and vendors for a 1,000+ attendee fest, ensuring smooth operations and timely execution.

Language Skills: English, Hindi   **Interests:** Trading, Investing, Reading, Traveling