ADITYA PRATAP SINGH TOMAR

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EDUCATION

- B. Tech {CSE} | Jabalpur Engineering College, Jabalpur — **CGPA: 8.39** | *(Sept '23 - present)*
- XII (CBSE) | Vidya Bhavan Public School, Gwalior — *83.4%| 2023*
- X (CBSE) | Vidya Bhavan Public School, Gwalior — *93%| 2021*

ACADEMIC PROJECTS

- **VitalView** *(Ongoing)* — *(Apr '25)*
  Developed an AI-driven healthcare platform for disease prediction and precautionary recommendations. The system includes **BMI calculation, user authentication, and patient history management**, enabling personalized diagnostics & for improved future medical assessments.
  Technologies: Python, GenAI, MySQL, Flask, React

- ***ECG Anomaly Detection & Classification*** *(Research - Ongoing)* — *(Mar '25)*
  Developed a Transformers-based system for classifying ECG signals to assist in early detection of heart abnormalities through pattern recognition and signal analysis. ***Technologies: Pandas, Pytorch, Matplotlib***

- **BinSavvy** *(Hackathon)* — *(Feb '25)*
  Engineered a smart waste management system integrating drone-based garbage detection with an admin dashboard to automate task assignment and optimize garbage collection routes. ***Technologies: (Backend, YOLO Model)-me***

- **MargDarshak-Mitr** *(Hackathon)* — *(Feb '25)*
  Designed a comprehensive web application offering train coach tracking, food availability checks, trip planning, and traveler assistance features to enhance the railway travel experience. ***Technologies: (Flask, GenAI)-me***

- **Student Lifestyle Analysis** — *(Dec '24)*
  Built an analytical model to explore correlations between student lifestyle factors and academic performance based on survey data.
  Technologies: Pandas, Scikit-learn, Matplotlib

- **Restaurants Rating Prediction & Analyses** — *(Nov '24)*
  Created a data-driven insights dashboard by analyzing global restaurant datasets to uncover trends in ratings, cuisines, and city-wise preferences.
  Technologies: Pandas, Scikit-learn, Matplotlib

- **Stock Price Predictor (Basic)** — *(Oct '24)*
  Designed and implemented a stock price prediction model using linear regression to analyze trends and make future projections.
  Technologies: Pandas, Scikit-learn, Matplotlib

- **Chess** — *(Feb '24)*
  Programmed a fully functional two-player traditional chess game, incorporating user-friendly controls and gameplay mechanics. ***Platform: Scratch***

- **Aditya Electronics** — *(Jan '23)*
  Created a robust online shop management system to streamline inventory tracking, order processing, and customer management.
  Technologies: Python, MySQL

ACHIEVEMENTS

- **GFG-160 Challenge:** Successfully Earned GFG-Bag as a Reward on maintaining **Consecutive 80 Days Streak** of solving DSA Problems
- **Hack JEC:** My Team Secured 5th position in Hack JEC 2.0 (An Internal Hackathon for SIH 2024.)

SKILLS

Python | JAVA | DSA | C | Data Science – (Numpy, Pandas, Matplotlib, Seaborn) | ML – Scikit-Learn | Deep Learning - (TensorFlow, Keras, PyTorch) | GenAI – (LangChain)| Backend – (Flask) | DBMS | Frontend – (HTML, CSS, JS) | Tools: Git, Github, Notion, Canva, Premiere-pro

POSITION OF RESPONSIBILITY

- **Data Science Intern | Cognifyz Technologies** — *(Nov '24 – Dec '24)*
  Performed data preprocessing, derived actionable insights, and developed predictive models to analyze restaurant data.

- **Tech-influencer | Matix, JEC** — *(Oct '24 – present)*
  Mentored and guided first-year students during CODE RED, providing a hands-on introduction to cutting-edge technology concepts.

- **DS/AI/ML Member | ACM, JEC** — *(Sep '24 – present)*
  Collaborated with the technical team of this prestigious club to organize and facilitate **Hacktoberfest '24,** enhancing community engagement in open-source contributions.

CERTIFICATIONS

- **Data Science:** INI | *verify* — *(Dec '24)*
- **Ethical Hacking:** NPTEL | *verify* — *(Dec '24)*
- **CS50x:** Harvard University | *verify* — *(Nov '24)*
- **Introduction to Responsible AI:** Google | *verify* — *(10 Jul '24)*
- **Introduction to Java & OOPs:** Saylor Academy | *verify* — *(7 Jul '24)*
- **Python:** Hackerrank | *verify* — *(11 Jul '24)*