# Aditya Namdeo

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## Experience

**Technical Lead (Tech Maestro),** *Microsoft Student Chapter - BGIEM* 08/2025 | Jabalpur, India
- Spearheading technical initiatives and workshops for **200+ students**, increasing participation by **20%**
- Leading a team of **5** student developers.
- Mentoring junior students in development and best coding practices.

**Community Associate,** *GeeksforGeeks Campus Body - BGIEM* 09/2025 | Jabalpur, India
- Driving student engagement in competitive programming and Data Structures & Algorithms (DSA).
- Coordinating with the core team to organize coding contests and technical hackathons on campus.
- Acting as a liaison between the university students and the GeeksforGeeks platform.

## Education

**Bachelor of Technology - Computer Science Engineering,** 09/2024 | Jabalpur
*Baderia Global Institute of Engineering and Management.*

**High school,** *St Gabriel's Higher Secondary School* 2024

## Skills

**Primary Programming:** Python (Advanced), SQL, C++ (Intermediate)

**Machine Learning & Data Science:** Random Forest, Decision Trees, Feature Engineering, Handling Imbalanced Data (SMOTE/Class Weights). | Pandas, NumPy, VIF Analysis (Variance Inflation Factor), Correlation Analysis. | Seaborn, Matplotlib, Confusion Matrix, ROC-AUC Curves.

**Tools & Frameworks:** Git/GitHub, Streamlit (Web Apps), VS Code, Jupyter Notebooks

**Leadership & Soft Skills:** Technical Mentorship, Event Management, Public Speaking (Microsoft Student Chapter & GeeksforGeeks Campus Body)

## Projects

**Financial Fraud Detection System | Python, Scikit-Learn, Random Forest**
- Developed a machine learning model to detect fraudulent activities in a financial dataset containing **6.3 million transaction rows**.
- Engineered custom features (errorBalance) to resolve high multi-collinearity issues and utilized **Random Forest Classifier** with balanced class weights to handle extreme data imbalance.
- Achieved **100% Precision and Recall** (AUC 1.0) and formulated an actionable infrastructure plan, proposing real-time velocity checks and 2FA implementation for fraud prevention.

**Avi: Screen-to-Insight Automation,** 05/2025 – Present
*AI-Powered Productivity Tool using Gemini API*
- Engineered an automated pipeline using **Python** and **FFmpeg** to capture screen recordings and convert them into **analyzable** image frames.
- Integrated **Google's Gemini API** to classify user activity and extract visual insights from the captured frames.
- Processing video frames with **95% accuracy.** reducing manual review time by **40%**.
- **Tech Stack:** Python, Google Gemini API, FFmpeg, Data Visualization.

**CineMatch,** *Machine Learning Web Application* 06/2025 – 07/2025
- **Content-Based Movie Recommendation System** using Cosine Similarity and Vectorization.
- Developed a recommendation engine using **Python** and **Scikit-learn**, utilizing TF-IDF vectorization and Cosine Similarity to analyze movie metadata.
- Built and deployed an interactive frontend using **Streamlit**, allowing real-time user interaction.
- Integrated the TMDb API to dynamically fetch and display high-resolution movie posters.
- **Tech Stack:** Python, Pandas, Scikit-learn, Streamlit.

## Hackathons & Achievements

**Delegate, HPAIR Harvard Conference 2026,** *Harvard University (or Harvard College Project for Asian & International Relations)* Cambridge, MA, USA
- Selected as a delegate for the 2026 Harvard Conference ("Emerging Horizons") after a rigorous selection process involving hundreds of applicants.

**ShopSaver (HackStorm Hackathon),** *Organized by Hacker's Unity, JEC Kukas* Jaipur, India
- Project: Developed a hyperlocal marketplace connecting businesses with excess food inventory to budget-conscious consumers.
- Tech Stack: Built a full-stack web app using React.js and Node.js with real-time database integration.
- Outcome: Solved API integration challenges to create a functional prototype for reducing local food waste.

**Real-Time Disaster Management System (HackCrux),** Jaipur, India

*Organized by Google Developer Groups, LNMIIT*

- Project: Engineered a crisis response platform designed to facilitate rapid communication and resource tracking during emergencies.
- Tech Stack: Developed the backend architecture using Python and MySQL for critical data handling, integrated with an HTML frontend.
- Key Focus: Prioritized low-latency data retrieval to ensure real-time updates for disaster response teams.