Aditya Tanwar

Ghaziabad,India
+91-8937000027 me.aditanwar007@gmail.com /in/adityatanwar AdityaTanwar adityatanwar

Education

VIT Bhopal University **Bhopal, IN**
Computer Science Engineering - 7.82 CGPA *Aug. 2022 – May 2026*

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, HTML/CSS
Frontend: React, Next.js, TypeScript, JavaScript, Tailwind CSS
Technologies/Backend: Node.js, Express.js, Flask, Python, REST APIs, MySQL, MongoDB

PROJECTS

All Projects Showcased at Github.com/AdityaTanwar

ForexWatch **Nov 2024**

- Created real-time currency monitoring system for 50+ Forex traders, reducing market reaction time by 40 percent via SMS/Telegram alerts.
- Integrated Alpha Vantage API with 5 requests/min automation; achieved ¡2s alert delivery through Twilio/Telegram APIs at 99 percent success rate.
- Optimized error handling and reduced API latency by 30 percent , improving system reliability.
- Expanded coverage to 100+ currency pairs with real-time monitoring, delivering over 500 automated alerts/day and maintaining 99.5 percent uptime.

SmartSpend **June 2023**

- Developed auto-categorization tool for SMEs handling 10K+ monthly transactions, eliminating 100 percent manual CSV uploads and reducing bookkeeping time by 30 percent., boosting
- Built Streamlit dashboard processing 10K+ transactions/month with 5+ interactive charts.
- Reduced manual data entry time by 90 percent by automating transaction categorization and report generation.
- Integrated secure bank API connections supporting 15+ financial institutions, enabling real-time transaction syncing with 99 percent data accuracy.

Soil Fertility Prediction System **Nov 2024**

- Developed advanced machine learning pipeline for soil fertility classification with 87.5 percent accuracy.
- Implemented multi-algorithm comparison (Random Forest, SVM, XGBoost) with 200+ hyperparameter combinations and 10-fold cross-validation, boosting accuracy by 15 percent and reducing validation error by 20 percent.
- Built production system processing 1M+ records/day with 20+ engineered features, improving prediction accuracy by 18 percent and reducing inference latency by 40 percent.
- Integrated real-time sensor data ingestion from 50+ IoT devices, enabling continuous soil quality monitoring with 99 percent uptime and automated weekly model retraining.

CERTIFICATIONS

- Cloud Computing — NPTEL IIT Kharagpur (2023)
- GEN AI Using IBM Watsonx — IBM (2024)
- IBM Cybersecurity Analyst — IBM (2024)
- Introduction to Machine Learning Deep Learning — NPTEL IIT Guwahati (2024)
- Marketing Analytics — NPTEL (2025)

CO-CURRICULAR

- Part of the Runner up Cricket team in ADVITYA'23
- Successfully Conducted a Model United Nation Debate for University MUN Club