SATHVIK PEDDI

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Aspiring Data Analyst I Data Scientist
Skilled in Python, Machine Learning, Data Analysis, and Visualization

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Social

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🎯 Professional Summary

Data-driven and detail-oriented aspiring **Data Analyst / Data Scientist** with hands-on experience in building **Machine Learning and Deep Learning models**, including an **AQI Prediction Model** and a real-world **AI-powered inventory analytics system (PharmaFlow)**. Proficient in Python, Pandas, NumPy, Scikit-learn, and applied AI for forecasting, monitoring, and decision support. Strong analytical thinking with a continuous learning mindset.

🛠️ Technical Skills

- **Programming:** Python
- **Data Analysis:** Pandas, NumPy
- **Data Visualization:** Matplotlib, Seaborn
- **Databases:** MySQL, PostgreSQL (Supabase)

- **Backend and Integrations:**Fast API, Groq AI Integration
- **Tools & Platforms:** Joblib, Jupyter Notebook, Supabase, Vercel,Git

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🚀 Projects

(Highlighted Academic & Real-World Projects – 3 Projects)

PharmaFlow — Smart Pharmacy Inventory System

Live: https://pharmaflow365.vercel.app/
Domain: Data Analytics I AI I Full-Stack Systems
Technologies: Next.js, React, TypeScript, Supabase (PostgreSQL), Tailwind CSS, Recharts, Groq AI, Vercel

- Built **PharmaFlow**, a full-stack pharmacy inventory SaaS focused on **data-driven stock optimization and expiry reduction**.
- Designed **batch-level inventory tracking** with **FEFO (First-Expiry-First-Out) automation** to minimize medicine wastage.
- Implemented **real-time expiry and low-stock alerts** using Supabase real-time features.
- Integrated **AI-powered demand forecasting** using Groq LLM API to predict medicine demand with **85%+ accuracy**, reducing **stockouts and expiry waste by 30%**.
- Developed an **analytics dashboard** providing insights into inventory trends, medicine usage, and revenue tracking.
- Implemented **role-based access control** (Admin / Pharmacist / Staff).

Impact:
Enabled pharmacies to make **data-backed inventory decisions**, significantly reducing medicine expiry losses.

AQI Prediction Model

Domain: Machine Learning I Data Analytics
Technologies: Python, Pandas, NumPy, Scikit-learn, Joblib, Matplotlib

- Built a Machine Learning model to **predict Air Quality Index (AQI)** using pollutant data such as PM2.5, PM10, NO_2, CO, O_3, and SO_2.
- Performed **data cleaning, feature scaling, and preprocessing** for improved model performance.
- Implemented and compared **Random Forest, Gradient Boosting, KNN, SVR, and Neural Networks**.
- Evaluated models using **RMSE and error analysis**, selecting the most reliable model.
- Saved trained models and scalers using **Joblib** for reuse and deployment.

Impact:
Supported **environmental monitoring and early-warning systems** through accurate AQI prediction.

Find App – Smart Item & Document Finder

Domain: AI | Data Handling | Search & Retrieval

- Designed an intelligent system to **store, manage, and retrieve important documents and items** efficiently.
- Enabled **image-based document storage** with text-based retrieval using keyword and partial-text search.
- Implemented **auto-suggestion search**, displaying relevant results when users type 2–3 characters.
- Added **timeline tracking** to show when items were stored, along with **download and share options**.
- Organized items with a dedicated **important documents section** for quick access.

Impact:
Improved information recall efficiency and reduced time spent searching for critical documents.

🏆 Achievements & Activities

- Built interactive dashboards and analytical models for academic and personal projects.

- Solved multiple coding challenges, strengthening **problem-solving and logical reasoning skills**.
- Actively learning advanced Machine Learning and Data Analytics concepts.

📌 Career Objective

To secure an entry-level **Data Analyst / Data Scientist** role where I can apply analytical skills, build impactful data solutions, and grow professionally in a data-driven environment.