PARTH MISHRA

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PROJECTS

Smart Advisory System for Marginal Farmers   September 2025 – November 2025
(Smart India Hackathon Project)

- Built a RASA-based chatbot to help farmers make smarter crop decisions.
- Delivered insights on soil health, weather, market prices, and fertilizer use using ML models.
- Expanded the frontend with HTML, Tailwind CSS, and JavaScript, and the backend with Flask and SQLite.

Predictive Analysis of Cyber Attack   January 2024 – March 2024

- **Real time Threat Detection**
- **Machine Learning for accurate Predictions:** using logistic regression algorithm to testify the data transferring.
- **Achieved a total of 93% real time Training accuracy.**

Autonomous Predictive Maintenance & Agentic AI System   November 2025 - Till Now
(_EY Techathon 6.0 — Qualified for Round 2 (Ongoing)_)

- Developed an Agentic AI solution where a **Master Orchestrator (n8n)** coordinates multiple Worker AI agents built using **Python/Flask**.
- Applied telematics-based **predictive maintenance models** using sensor data, usage history, and RCA/CAPA logs.
- Built Worker Agents for **data analysis, diagnostics, customer engagement, autonomous scheduling**, and post-service feedback collection.
- Designed persuasive customer-interaction flow using chatbot/voice-based recommendations for proactive servicing.
- Integrated a **service scheduling engine** with availability checks, failure severity prioritization, and automated booking logic.
- Added a **manufacturing feedback module** to surface recurring defect patterns and recommend design improvements.
- Implemented **UEBA-driven monitoring** to track agent behavior, detect anomalies, and prevent unauthorized access in autonomous workflows.

SKILLS

Artificial Intelligence & Machine Learning	Programming	Frontend Development
- NumPy, Pandas, Matplotlib - Scikit-learn (Logistic Regression) - Data cleaning, preprocessing, and feature engineering	- C, C++ - Java (basic understanding) - Python (advanced) - Competitive Programming (CodeChef – 200+ problems solved)	- HTML, CSS - Tailwind CSS, Bootstrap - JavaScript - React (basics)
Tools and Technologies - Git, GitHub - VS Code, Jupyter Notebook - Linux (basic usage)	**Backend & Databases** - Python with Flask - RESTful API development - SQL, SQLite - JSON handling - DSA & OOPS	**Soft Skills** - Effective Communication & Multilingual - Leadership & Team Collaboration. - Strategic thinking & Flexibility

EDUCATION

Greater Noida Institute of Technology, Gautam Buddha Nagar   September 2023 - Present
Bachelor of Technology in Computer Engineering, Relevant achievements:
- Qualified the internals of Smart India Hackathon
- Finalist of EY TECHATHON.
- Won the inter-college math competition.