

Tarakesh Prawin

Data Scientist

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Professional summary

With over 5 years of experience and 3 years of experience in data science and AI development, I have built scalable solutions across renewable energy and manufacturing domains. My expertise spans designing LLM-driven automation, predictive analytics, and deploying cloud-native AI applications. I am passionate about applying Gen AI technologies to solve real-world business challenges.

Employment history

Data Scientist, May 2024 - Present

Green Wave Solutions Private Limited, Kolkata

- Developed end-to-end predictive analytics pipeline using SQL, Python, and stacking ensemble models—containerized using Docker, achieving RMSE consistently <5%, with robust feature engineering, imputation, and production-grade deployment.
- Built and deployed an AI-powered SQL automation assistant using LangChain and GPT-4, reducing query generation time by 80% and integrating it with FastAPI for REST API access, containerized using Docker for production use.
- Engineered a real-time speech-to-structured-data pipeline using Azure Speech SDK and GPT models with sub-second latency, deployed on Azure with FastAPI, and monitored using custom logging for system observability and response tracking.
- Designed and deployed a data-type inference service for Excel processing using GPT-4, FastAPI, and Docker—automated schema classification reduced manual effort by 80%.

Assistant Manager, Oct 2018 - Jun 2023

Renew Power Private Limited, Gurgaon

- Designed predictive models for optimizing solar PV panel cleaning, resulting in ₹3M cost savings annually and a 1.5% increase in energy yield.
- Deployed real-time Tableau dashboards for 40+ solar sites, enhancing KPI visibility and reducing reporting lead time.
- Automated solar panel design processes, leading to 30% reduction in engineering effort.

Education

Post Graduation Program in Data Science, Jul 2023 - Apr 2024

Praxis Business School, Bangalore

CQPI: 6.53/8.0

BTech- Mechanical Engineering, Jan 2014 - Jan 2018

PES University, Bangalore

GPA: 8.01

Skills

Python, NLP, Gen AI, LLMs, SQL, RAG, Power BI, Azure, Prompt Engineering, Tableau, FastAPI, LangChain, GPT-4, HuggingFace, MLOps, Regression, Feature Engineering, Deployment, Modeling.

Languages

English (*Native*), Telugu (*Native*), Hindi (*Highly proficient*).

Additional information

Hackathon Achievement, Runner-up in Vizerto RFP Hackathon (2024)

Developed a GenAI Agentic Workflow to answer complex, multi-part RFP questions using GPT-based models, extracting insights from 500+ pages of technical documentation for accurate, business-aligned responses.