Kirushna Priya T

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Summary

Motivated AI/ML and AI Engineering professional transitioning from a clinical perfusionist background, with hands-on experience in machine learning and building end-to-end AI applications. Skilled in LLM API integration, tool calling, and deploying scalable AI services. Brings strong analytical thinking and problem-solving abilities from high-responsibility healthcare environments, with a passion for engineering reliable, data-driven AI systems.

Education & Certifications

AI Engineer: Core Track by Ed Donner	Ongoing, Udemy, 2026
Microsoft AI Engineer Program	Ongoing, Simplilearn , 2025
AI Career Accelerator Program	Ongoing, AI for Techies,2025
Generative AI Mastermind	Outskill, 2025
Chettinad Academy of Research and Education, Chennai	B.Sc. in Perfusion Technology
78.8%	2022

Projects

Employee Turnover Analysis

Developed and optimized machine learning models (Random Forest, Logistic Regression, Gradient Boosting) using SMOTE and robust feature engineering, achieving 99% prediction accuracy. Built a Flask-based frontend for real-time predictions, containerized the application with Docker, and deployed it on AWS Elastic Beanstalk, delivering actionable customer-retention insights driven by AUC- and recall-focused evaluation.

Airline Assistant – Flight AI

An airline assistant leveraging Gemini 3 Flash (preview) via Gemini API to enable step-by-step reasoning and dynamic tool calling. Designed logic for deciding when to invoke external tools and fetch real data, rather than relying on static responses. Exposed both model outputs and tool-call traces through an interactive UI, enabling transparent and debuggable LLM behavior.

Technical Skills

- Proficient in Python, pandas, NumPy, scikit-learn; currently expanding expertise in Pytorch, Keras, deployment, tool calling.

- Experienced in supervised and unsupervised machine learning, including classification, regression, feature engineering, and model evaluation.

- Skilled in data cleaning, statistical analysis, and visualization (seaborn, matplotlib); adept with GenAI tools (Bolt.new, N8N) and collaborative version control (Git, GitHub).

Experience

Manipal Hospitals	**Bengaluru, Karnataka**
Clinical Perfusionist	December 2023 – April 2025

- Operated & communicated complex systems (ECMO, IABP, VAD) clearly to medical teams.

- Documented and analyzed 150+ high-complexity cases with precision; trained interns and collaborated across departments — transferable to multi-disciplinary communication.