PRIYANSHU KALONDIA

AI AND ML ENGINEER

Delhi, India | +91-9971747013 | priyanshukalondia@gmail.com | Portfolio | LinkedIn | GitHub

SUMMARY

AI/ML Engineer focused on building production-oriented machine learning and generative AI systems. Experienced in developing end-to-end ML applications, Agentic RAG pipelines, real-time fraud detection, and MLOps platforms with model monitoring, drift detection, automated retraining, and rollback. Strong hands-on experience with Python, FastAPI, Scikit-learn, XGBoost, MLflow, RAG, React, Docker, SQL, and modern AI/ML engineering workflows.

TECHNICAL SKILLS

Languages: Python, SQL, Java, C++, JavaScript, TypeScript

AI/ML: Scikit-learn, XGBoost, Pandas, NumPy, Feature Engineering, Model Evaluation, Hyperparameter Tuning, SHAP, Explainable AI

Generative AI: LLMs, RAG, Agentic AI, Embeddings, Vector Search, BM25, Hybrid Retrieval, RRF, Reranking, Query Decomposition, Multi-Hop Retrieval, LLM Evaluation

MLOps: MLflow, Experiment Tracking, Model Registry, Model Monitoring, Data Drift Detection, PSI, KS Test, Automated Retraining, Champion-Challenger Evaluation, Model Rollback

Engineering: FastAPI, REST APIs, WebSockets, React, Tailwind CSS, SQLAlchemy, PostgreSQL, MySQL, Docker, Git, GitHub

EXPERIENCE

DATA ANALYST INTERN

Jun 2026 – Jul 2026

V DEVI FOUNDATION *click here*

- Built a centralized donor-management system using Python, Pandas, SQL, and automated CSV/Excel workflows for data validation and management.
- Developed Power BI and Streamlit dashboards and optimized MySQL structures to translate stakeholder requirements into actionable analytics.

LEAD & CO-FOUNDER

Jan 2026 – Mar 2026

INSANZIA LABS *click here*

- Designed database schemas and frontend data flows, integrated REST APIs, and monitored application usage metrics for web-based products.

EDUCATION

Guru Gobind Singh Indraprastha University (USICT)

Delhi

B.Tech, Information Technology. (Specialization in AI and ML). *2023-2027*

SELECTED PROJECTS

SENTINELML — SELF-HEALING MLOPS PLATFORM | Python, FastAPI, MLflow, Scikit-learn, XGBoost, SHAP, React, PostgreSQL, Docker Live Demo | GitHub

- Built an end-to-end MLOps platform covering model training, experiment tracking, registry, deployment, monitoring, drift detection, automated retraining, and rollback.
- Implemented PSI/KS-based drift detection and model-health scoring with real-time monitoring through REST APIs and WebSockets.
- Developed champion-challenger evaluation that automatically compares newly trained models against the deployed champion before promotion.
- Implemented self-healing and rollback workflows with SHAP-based explainability and 30 automated tests covering core ML lifecycle and recovery components.

PRODUCTION AGENTIC RAG | Python, FastAPI, RAG, BM25, Vector Search, RRF, React, LangGraph, Docker MLflow, vercel. Live Demo | GitHub

- Built an Agentic RAG system using query decomposition, multi-hop retrieval, hybrid BM25/vector search, reciprocal rank fusion, reranking, and grounded generation.
- Implemented source-aware citations, faithfulness evaluation, guardrails, and self-correction to improve answer grounding and retrieval reliability.
- Added customizable knowledge ingestion supporting user-uploaded manuals/handbooks and custom Q&A alongside the default knowledge base.
- Developed the FastAPI backend and React interface with automated tests covering retrieval, agents, guardrails, custom knowledge, and pipeline behavior.

SENTRY — FRAUD DETECTION & RISK MONITORING | Python, Scikit-learn, FastAPI, SQLAlchemy, React, WebSockets | Live Demo | GitHub

- Built a real-time fraud detection system combining supervised classification and anomaly detection to generate transaction-level risk scores.
- Designed explainable risk categorization with reason codes and an investigation workflow supporting alerts, filtering, manual review, and approve/block decisions.
- Developed FastAPI services with persistent transaction state and WebSocket-based real-time updates for the React monitoring dashboard.

ACHIEVEMENTS

BuildWithIndia–HackWithIndia: Top 20% — Top 5,000 of 25,000 teams; Google Office finale GDG Solution Challenge: Developed an AI-based solution aligned with UN Sustainable Development Goals