

ROHIT PARADKAR

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Portfolio

Profile Summary

AI/ML Developer with hands-on experience in building **real-time ML systems**, cloud-native applications, and scalable data platforms. Proficient in **Apache Kafka**, **Python**, **MLOps**, and **streaming architectures**, with a strong background in deploying intelligent systems for IoT and financial analytics. Passionate about architecting event-driven solutions with low-latency inference, monitoring, and automation.

Technical Skills

Languages: Python, JavaScript, SQL, R, HTML, CSS

Streaming & Messaging: Apache Kafka, Kafka Streams, Kafka Connect, Apache Flink, Schema Registry

Backend & APIs: Node.js, Flask, FastAPI, RESTful APIs, WebSockets

Databases: MongoDB, PostgreSQL, Vector DBs (Pinecone, Chroma), InfluxDB

Streaming & IoT: Apache Kafka, Kafka Streams, Azure IoT Hub, Event-driven architecture

Cloud & Infra: AWS (EC2, Lightsail, Sagemaker), Azure, Docker, Kubernetes, CI/CD

ML/AI: PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face, LangChain

MLOps: MLflow, Airflow, Model Monitoring, Versioning, Automated Retraining

System Design: Scalable Architecture, Security, High Availability, Monitoring & Alerting

Experience

AI/ML Developer

Sep 2023 – Present

Technosoft Engineering

Thane, Maharashtra

- Architected and deployed **real-time ML pipelines** using **Apache Kafka** and **Azure IoT Hub** for high-volume streaming sensor and financial data.
- Developed enterprise-grade AI-driven systems, improving deployment speed by 50% and platform resiliency to 99.9%.
- Implemented ML pipelines with MLflow and automated deployment workflows using Docker and CI/CD practices, reducing deployment time by 50% while maintaining high code quality through TDD and systematic testing.
- Designed scalable microservice APIs integrating ML models into production systems.
- Collaborated with software developers and backend teams for seamless system integration and delivery.
- Designed and deployed data exploration and visualization dashboards enabling stakeholders to identify data patterns, trends, and statistical insights for data-driven decision making.

Data Scientist Intern

May 2022 – Jun 2022

Exposys Data Labs

Bengaluru, Karnataka

- Conducted financial data analysis using Python and SQL to identify market patterns.
- Developed forecasting models and real-time dashboards for investment insights.
- Automated reporting pipelines, reducing manual reporting by 40%.

Data Analyst Intern

Apr 2021 – Jul 2021

Entuple Technologies

Pune, Maharashtra

- Analyzed large datasets for forecasting and trend analysis with ML algorithms.
- Engineered data pipelines using Pandas, NumPy, and scikit-learn.
- Prepared structured ML-ready data for faster model deployment.

Projects

Smart Safety Hat – IoT Streaming Platform | Azure IoT, Kafka, FastAPI, Python, Mongodb, Node

2023-present

- Built a distributed IoT system streaming real-time sensor data from multiple helmets through **Azure IoT Hub** and **Kafka**.
- Implemented **Kafka partitioning & consumer groups** for parallel, fault-tolerant processing.
- Integrated real-time anomaly detection models with WebSocket-based alerting system.
- Optimized end-to-end latency for sub-second alert delivery.

Financial Data Analytics Platform | Kafka, AWS, Python, Flask

2023

- Designed a real-time streaming pipeline for ingesting and processing financial market feeds via Kafka.
- Implemented online ML inference pipelines for personalized financial recommendations.
- Containerized deployment using AWS and CI/CD workflows for continuous delivery.

- Developed an **autonomous multi-agent financial system** using CrewAI for **real-time investment insights**.
- Orchestrated **data analyst, strategy, and alert agents** for streaming financial data processing.
- Integrated Kafka for event-driven data flow and real-time decision-making.
- Enabled LLM-powered reasoning for signal generation, risk scoring, and user-specific recommendations.
- Enhanced personalization using LLM-powered recommendation systems and real-time feature engineering for improved investment decision accuracy .

Education

University of Mumbai

June 2019 – June 2023

Bachelor of Technology in Electronics and Telecommunication

Mumbai, Maharashtra

* **Relevant Coursework:** Software Engineering, Database Systems, Algorithms, System Design

* **Technical Projects:** Real-time ML systems, IoT solutions, and streaming pipelines.

Certifications & Professional Development

Google Data Analytics Professional Certificate (2022): SQL, Tableau, R, Data Analysis

Multi AI Agent Systems with CrewAI (2025): AI Agents, GenAI Applications, RAG, Task Automation

Professional Development: Active participant in AI/ML , Agentic AI , DevOps