









# RIFAT ERDEM SAHIN

## MACHINE LEARNING LEAD | AI STRATEGY & ENGINEERING SPECIALIST

---

-  **Location:** London, United Kingdom
  -  **Citizenship:** British
  -  **Email:** [contact@rifaterdemsahin.com](mailto:contact@rifaterdemsahin.com)
  -  **Phone:** +44 7848 024173
  -  **LinkedIn:** [linkedin.com/in/rifaterdemsahin](https://www.linkedin.com/in/rifaterdemsahin)
  -  **GitHub:** [github.com/rifaterdemsahin](https://github.com/rifaterdemsahin)
  -  **Portfolio:** <https://rifaterdemsahin.com>
  -  **Schedule a Call:** <https://calendly.com/rifaterdem/schedule>
- 

## PROFESSIONAL SUMMARY


---

Senior Machine Learning Lead specializing in **AI Strategy, Large-Scale ML Systems, and Generative AI (LLMs)**. Expert in leading cross-functional engineering teams to design, build, and deploy production-grade ML models. Proven track record in delivering AI solutions that achieved 300% productivity improvements and 40% reduction in operational overhead across financial services, healthcare, and global technology sectors. Expert in MLOps, model governance, and AI-powered automation using IBM watsonx and cloud-native ML platforms.

---

## CORE COMPETENCIES

---

 **AI/ML Leadership & Strategy** - Leading ML engineering teams and AI research initiatives - AI product roadmap definition and architectural oversight - Generative AI & LLM strategy (Fine-tuning, RAG, Prompt Engineering) - Model Governance, Ethics, and Responsible AI frameworks

⚙️ **ML Engineering & MLOps** - Production-grade ML pipelines (Kubeflow, MLflow, Airflow) - Scalable model serving (Kubernetes, Triton, BentoML) - Feature Store design and data engineering for ML - Continuous Integration and Deployment for ML (CI/CD for ML)

📊 **Data Science & Research** - Advanced Statistical Modeling and Deep Learning (PyTorch, TensorFlow) - NLP, Computer Vision, and Time-Series Forecasting - Experiment tracking and model performance optimization - Data-driven decision making and stakeholder management

---

## KEY ACCOMPLISHMENTS

---

### 🏆 2025 | IBM | London, UK

**Enterprise Generative AI & ML Platform Leadership - Challenge:** Lead the development of enterprise-scale Generative AI solutions and automate complex ML workflows for global clients - **Solution:** Architected a comprehensive AI platform leveraging IBM watsonx.ai for rapid model development and automated deployment on Red Hat OpenShift - **Impact:** - 35% reduction in model development cycle time via automated MLOps pipelines - 40% improvement in AI-driven insight accuracy using custom-tuned LLMs - Successfully scaled AI solutions to support mission-critical operations across 5+ global accounts - **Technologies:** IBM watsonx.ai, Red Hat OpenShift, PyTorch, LangChain, Hugging Face, Terraform, GitHub Actions

### 🏆 2024 | Goldman Sachs | Muscat, Oman

**Enterprise ML Financial Risk Platform - Challenge:** Design and lead the implementation of a high-performance ML platform for real-time financial risk assessment - **Solution:** Architected a hybrid-cloud ML platform with automated model retraining and real-time inference capabilities - **Impact:** - 300% improvement in risk detection speed through optimized ML architecture - 30% reduction in operational costs via intelligent resource management for ML workloads - 99.9% availability for mission-critical ML-driven financial workflows - **Technologies:** Kubernetes, AWS SageMaker, MLflow, Spark, Python, Terraform

### 🏆 2023 | Ypsomed | Switzerland

**Healthcare IoT Predictive Analytics - Challenge:** Lead the development of predictive maintenance models for medical IoT devices - **Solution:** Developed an end-to-end ML solution for real-time device health monitoring and anomaly detection - **Impact:** - 40%

improvement in device uptime through predictive maintenance - 35% reduction in field service costs via AI-driven remote diagnostics - Real-time patient safety insights enabling proactive healthcare delivery - **Technologies:** Azure ML, IoT Hub, Python, Scikit-learn, Docker, Grafana

---

## TECHNICAL EXPERTISE

---

### AI & Machine Learning

**Frameworks:** PyTorch, TensorFlow, Scikit-learn, JAX, XGBoost

**Generative AI:** LLMs (GPT, Llama, Granite), LangChain, RAG, Vector DBs (Milvus, Pinecone)

**NLP & CV:** Transformers, BERT, OpenCV, Image Segmentation

**Tools:** Jupyter, Weights & Biases, MLflow, DVC

### ML Infrastructure & DevOps

**Platforms:** Kubernetes, Red Hat OpenShift, AWS SageMaker, GCP Vertex AI, Azure ML

**MLOps:** Kubeflow, Airflow, ZenML, Feast (Feature Store)

**Automation:** Terraform, Ansible, GitHub Actions, GitLab CI/CD

**Monitoring:** Prometheus, Grafana, ELK Stack, Evidently AI

---

## PROFESSIONAL EXPERIENCE HIGHLIGHTS

---

**Senior Machine Learning Lead / AI Solutions Architect** | January 2025 - Present

*IBM | London, UK*

- Leading the delivery of **Generative AI solutions** using **IBM watsonx.ai**, enabling enterprise clients to leverage LLMs for automated business processes
- Architecting **MLOps frameworks** on Red Hat OpenShift, standardizing model deployment and monitoring across global teams
- Driving the adoption of **Responsible AI** practices, ensuring model fairness, transparency, and explainability
- Mentoring a team of 15+ ML engineers and data scientists on advanced AI techniques and production engineering
- Collaborating with C-suite stakeholders to define AI transformation strategies and identify high-impact use cases

## Senior ML Lead / Technical Lead | 2020 - 2025

Goldman Sachs, Ypsomed, Cushman & Wakefield

- Led ML engineering initiatives across finance, healthcare, and real estate sectors
- Designed and implemented **End-to-End ML systems** supporting millions of daily transactions
- Established organizational ML best practices and automated validation frameworks
- Mentored engineering teams on modern ML technologies and MLOps practices
- Delivered solutions achieving 300% improvement in operational efficiency through AI

## Machine Learning Engineer | 2016 - 2020

Microsoft, Emerson, Various Fortune 500

- Built enterprise ML solutions for digital transformation initiatives
- Led cross-functional teams designing scalable AI applications
- Established model deployment frameworks and implementation strategies
- Evangelized AI technologies through technical leadership and workshops

---





## EDUCATION

### Bachelor of Science

Southern New Hampshire University, USA  | 2013



---

## CERTIFICATIONS & CONTINUOUS LEARNING

-  AWS Certified Machine Learning - Specialty
-  Google Cloud Professional Machine Learning Engineer
-  Certified Kubernetes Administrator (CKA)
-  DeepLearning.AI Specializations (NLP, GANs, etc.)

---

## SECURITY CLEARANCES

-  UK SC (Security Check) - Valid until 2028
-  NATO Clearance - Valid until 2029

✓ **Background Checks:** Watchdog (2024), Sterling (2019)

---

## AVAILABILITY & CONTACT

---

**Immediate Availability** for Machine Learning Lead roles



**Schedule a Discussion:** <https://calendly.com/rifaterdem/schedule>



**Email:** [contact@rifaterdemsahin.com](mailto:contact@rifaterdemsahin.com)



**Phone:** +44 7848 024173

---

## SUPPORTING DOCUMENTS

---



**Technical Portfolio & Presentations:**

[https://rifaterdemsahin.com/wp-](https://rifaterdemsahin.com/wp-content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf)

[content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf](https://rifaterdemsahin.com/wp-content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf)

---

*References and detailed project portfolios available upon request*