









RIFAT ERDEM SAHIN


MACHINE LEARNING ENGINEER | AI/ML SYSTEMS & MLOPS SPECIALIST

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

Senior Machine Learning Engineer specializing in **developing and deploying scalable ML models, MLOps, and generative AI solutions**. Deep expertise in the full ML lifecycle from data engineering to model serving and monitoring. Proven track record building AI/ML platforms that delivered 300% efficiency improvements and enabled real-time decision making across financial services, healthcare, and tech sectors. Expert in TensorFlow, PyTorch, and cloud-native ML pipelines (Vertex AI/SageMaker).

CORE COMPETENCIES

-  **Machine Learning & AI** - Model development (Regression, Classification, NLP, LLMs) - Deep Learning frameworks (TensorFlow, PyTorch, Keras) - GenAI & LLM integration (LangChain, Hugging Face, OpenAI API) - Feature engineering and data preprocessing
-  **MLOps & Engineering** - End-to-end ML pipelines (Kubeflow, MLflow, Airflow) - Model serving and deployment (Docker, Kubernetes, FastAPI) - Model monitoring and drift detection - Cloud ML Platforms (AWS SageMaker, GCP Vertex AI, Azure ML)

KEY ACCOMPLISHMENTS

2024 | HealthTech Innovators | London

Predictive Patient Analytics Platform - Challenge: Improve patient outcomes by predicting readmission risks using historical health data. - **Solution:** Developed and deployed an ensemble tree-based model (XGBoost) integrated with the hospital's EHR system. - **Impact:** - Achieved 85% accuracy in predicting 30-day readmissions. - Reduced preventable hospital readmissions by 20%. - Implemented automated retraining pipeline reducing model drift effects. - **Technologies:** Python, Scikit-learn, AWS SageMaker, FastAPI, Docker

2023 | FinTech Global | Remote

Fraud Detection System Overhaul - Challenge: Reduce false positive rates in real-time transaction monitoring. - **Solution:** Re-architected the fraud detection engine using a graph neural network (GNN) approach. - **Impact:** - Reduced false positives by 40%, saving \$2M annually in operational costs. - Improved fraud detection rate by 15% in real-time transactions. - Deployed highly scalable inference API handling 5k TPS.

PROFESSIONAL EXPERIENCE HIGHLIGHTS

Senior Machine Learning Engineer / AI Solutions Architect | January 2025 - Present *IBM | London, UK*

- Architecting hybrid cloud transformation using IBM Cloud and Red Hat OpenShift for Fortune 500 enterprises
- Implementing watsonx AI solutions for intelligent automation, reducing operational overhead by 35%
- Leading DevSecOps transformation with Ansible Automation Platform and Terraform IaC across multi-cloud environments
- Delivering zero-downtime Kubernetes cluster migrations for mission-critical financial and government workloads
- Building enterprise CI/CD pipelines with GitHub Actions and Jenkins serving 500+ developers globally

Senior Machine Learning Engineer / Technical Lead | 2020 - 2025 *Goldman Sachs, Ypsomed, Cushman & Wakefield*

- Led machine learning engineer initiatives across finance, healthcare, and real estate sectors
- Designed and implemented solutions supporting millions of daily transactions
- Established best practices and automated frameworks
- Mentored engineering teams on modern technologies and practices
- Delivered solutions achieving 300% improvement in operational efficiency

Machine Learning Engineer | 2016 - 2020 *Microsoft, Emerson, Various Fortune 500*





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

EDUCATION

 **Bachelor of Science**

Southern New Hampshire University, USA  | 2013



CERTIFICATIONS & CONTINUOUS LEARNING

-  **Microsoft Certified Solutions Architect Expert**
-  **AWS Certified Solutions Architect Professional**
-  **Azure Solutions Architect Expert**
-  **Certified Kubernetes Administrator (CKA)**

Continuous Learning:




- Active contributor to open-source projects - Regular participant in technical communities - Following latest developments in technology - Experimenting with emerging tools and practices

SECURITY CLEARANCES


-  **UK SC (Security Check)** - Valid until 2028
 -  **NATO Clearance** - Valid until 2029
 - ✓ **Background Checks:** Watchdog (2024), Sterling (2019)
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AVAILABILITY & CONTACT

Immediate Availability for machine learning engineer roles

-  **Schedule a Discussion:** <https://calendly.com/rifaterdem/schedule>
 -  **Email:** contact@rifaterdemsahin.com
 -  **Phone:** +44 7848 024173
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SUPPORTING DOCUMENTS

-  **Technical Portfolio & Presentations:**
<https://rifaterdemsahin.com/wp-content/uploads/2025/02/rifaterdemsahinprofilepresentation.v2025.2.pdf>
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References and detailed project portfolios available upon request