









RIFAT ERDEM SAHIN



DEEP LEARNING ENGINEER | NEURAL NETWORKS & COMPUTER VISION SPECIALIST

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 -  **Portfolio:** <https://rifaterdemsahin.com>
 -  **Schedule a Call:** <https://calendly.com/rifaterdem/schedule>
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PROFESSIONAL SUMMARY

Senior Deep Learning Engineer specializing in **designing, training, and deploying advanced neural network architectures**. Deep expertise in PyTorch and TensorFlow for Computer Vision and NLP tasks. Proven track record in optimizing state-of-the-art models for production environments, reducing inference latency, and handling large-scale datasets. Expert in model compression (quantization/pruning) and distributed training.

CORE COMPETENCIES

-  **Deep Learning & Research** - Advanced Architectures (Transformers, CNNs, GANs, Diffusion Models) - Frameworks: PyTorch, TensorFlow, JAX, CUDA - Model Optimization: Quantization, Pruning, Distillation, TensorRT - Research implementation from papers to code
 -  **Data & MLOps** - Large-scale dataset curation and augmentation - Distributed Training (Multi-GPU/Node, DeepSpeed, Ray) - Experiment Tracking (Weights & Biases, MLflow) - Production Inference Serving (Triton, TorchServe)
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KEY ACCOMPLISHMENTS

2024 | Autonomous Robotics | London

Visual Perception System - Challenge: Improve object detection accuracy and speed for autonomous navigation in unstructured environments. - **Solution:** Designed a custom lightweight Transformer-based architecture optimized for edge devices (NVIDIA Jetson). - **Impact:** - Increased detection mAP by 15% compared to YOLOv8 baseline. - Reduced inference latency by 40%, enabling real-time performance at 30 FPS. - Deployed successfully to fleet of 200+ robots. - **Technologies:** PyTorch, TensorRT, NVIDIA Jetson, ROS2

2023 | MedTech AI | Remote

Medical Image Diagnostics - Challenge: Automate the detection of anomalies in high-resolution MRI scans with human-level accuracy. - **Solution:** Developed a 3D-CNN pipeline with self-supervised pre-training on unlabeled data. - **Impact:** - Achieved 94% sensitivity, matching senior radiologist performance. - Reduced diagnosis time by 60% by triaging critical cases. - Published research confirming methodology efficacy in leading journal.

PROFESSIONAL EXPERIENCE HIGHLIGHTS

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

- Led deep 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

Deep 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 deep 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