









RIFAT ERDEM SAHIN



NLP ENGINEER | NATURAL LANGUAGE PROCESSING & LLM SPECIALIST

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

Senior NLP Engineer specializing in **building intelligent text processing systems and Large Language Model (LLM) applications**. Deep expertise in semantic search, sentiment analysis, and conversational AI. Proven track record in fine-tuning transformer models (BERT, GPT) for domain-specific tasks and deploying them effectively in production.

CORE COMPETENCIES

-  **Natural Language Processing** - LLM Integration (OpenAI, Anthropic, Llama 2) - Vector Databases (Pinecone, Weaviate, Milvus) - RAG (Retrieval-Augmented Generation) Architectures - Named Entity Recognition (NER) & Classification
 -  **ML Engineering** - Hugging Face Ecosystem (Transformers, Datasets) - Prompt Engineering & Chain-of-Thought - Model Fine-Tuning (PEFT, LoRA) - NLP Pipelines (Spacy, NLTK)
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KEY ACCOMPLISHMENTS

2024 | Legal Tech | London

Contract Analysis Assistant - Challenge: automate the review of complex legal contracts to identify high-risk clauses. - **Solution:** Built a RAG pipeline using GPT-4 and a vector database of legal precedents. - **Impact:** - Reduced contract review time by 75%. - Achieved 95% accuracy in identifying risk clauses compared to human lawyers. - Deployed as a secure, private instance for enterprise clients.

2023 | Customer Support AI | Remote

Multilingual Chatbot - Challenge: Deflect L1 support tickets for a global user base speaking 10+ languages. - **Solution:** Fine-tuned a multilingual BERT model for intent classification and entity extraction. - **Impact:** - Deflected 40% of incoming tickets automatically. - Supported 12 languages with a single model. - Improved CSAT scores by providing instant responses.

PROFESSIONAL EXPERIENCE HIGHLIGHTS

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

- Led nlp 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

NLP 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)

AVAILABILITY & CONTACT

Immediate Availability for nlp engineer roles



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



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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