

Contact

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Top Skills

Data Science

Statistical Analysis

Exploratory Data Analysis

Languages

English (Full Professional)

Turkmen (Native or Bilingual)

Persian (Native or Bilingual)

German (Professional Working)

Certifications

Unsupervised Learning,
Recommenders, Reinforcement
Learning

AI Engineer Core Track: LLM
Engineering, RAG, QLoRA, Agents

Certified Data Scientist

Machine Learning

Supervised Machine Learning:
Regression and Classification

Halimeh Agh

AI/ML Research Engineer | GenAI & LLM Systems | RAG · Agentic AI · Data Science | Open to New Opportunities
Stuttgart, Baden-Württemberg, Germany

Summary

Applied Scientist with a PhD in Software Engineering and 3+ years of hands-on experience in AI4SE and SE4AI research. Specialized in the intersection of AI and software engineering, spanning ML system design and data pipelines to code quality analysis at scale. Over the past year (2025), deepened focus on GenAI and LLM engineering, building RAG systems, fine-tuning large language models, and developing agentic AI applications. Led cross-functional projects coordinating 10+ partners, including Bosch and Fraunhofer. Active open-source contributor with a growing portfolio of LLM engineering projects on GitHub. Currently exploring opportunities in Data Science, Applied AI Research, or ML Engineering.

Experience

University of Stuttgart

Postdoctoral Researcher (Research Engineer – AI/ML & GenAI)

June 2022 - Present (3 years 9 months)

Stuttgart, Baden-Württemberg, Germany

◆ AI/ML Research & Applications:

- Developed ML-guided testing framework for automotive software product lines, improving test efficiency across systems with high variability and complexity
- Built predictive models using TensorFlow and Scikit-learn for CO2 emission optimization based on real-world driving data
- Analyzed ML code quality and maintainability across large-scale open-source projects (upcoming publications at ICSME 2026, ICSE 2027)

◆ GenAI & LLM Projects (2025 – Present):

- Developed a RAG-based Gmail Q&A system using LangChain, ChromaDB, and GPT-4o for intelligent email retrieval and question answering
- Built multi-agent AI systems with autonomous workflows and tool-using agents

- Fine-tuned large language models for domain-specific tasks using parameter-efficient methods
- ◆ Project Leadership & Collaboration:
- Led Work Package coordinating 10+ academic and industry partners in BMBF-funded AutoDevSafeOps project
 - Mentored 10+ Master's/Bachelor's students on AI/ML projects with industry partners including Mercedes-Benz

Universidad de Castilla-La Mancha

Visiting Researcher

April 2018 - October 2018 (7 months)

Ciudad Real, Spain

Visiting Researcher (6 months). Conducted empirical research including expert surveys and quantitative data analysis. Co-authored two journal papers on customizing development processes for diverse teams and projects.

Education

Sharif University of Technology

Doctor of Philosophy (Ph.D.), Computer Science · (2014 - 2021)

Sharif University of Technology

Master of Science (MSc), Computer Science · (2011 - 2013)