



# Sulaeman Aloradi

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## ABOUT ME

I am a motivated computer science researcher with a strong academic background and hands-on experience in Natural Language Processing (NLP), AI, and high-performance computing (HPC). Currently pursuing a MSc in Computer Science at the University of Bonn, I combine theoretical knowledge with practical expertise gained through international education and research collaborations.

## WORK EXPERIENCE

**Bonn-Aachen International Center for Information Technology (b-it)** – Bonn, Germany

City: Bonn | Country: Germany | Website: <https://www.b-it-center.de/> | Name of unit or department: CAISA Lab

Link <https://caisa-lab.github.io/members/sulaeman.html>

### University research assistant

[ 03/2025 – Current ]

- Adapted reinforcement learning pipelines on HPC clusters with reasoning traces and multi-head attention.
- Fine-tuned Transformer models (GPT-2, SciFive, BioBERT) for NER, QA, NLI, and relation extraction.
- Built and benchmarked QA & extraction pipelines, outperforming BERT/BioBERT baselines.
- Integrated Hugging Face Transformers for structured data extraction at scale.
- Conducted LLM evaluations for accuracy, latency, and robustness.
- Exposure to retrieval-augmented generation (RAG) design and benchmarking.

## EDUCATION AND TRAINING

### Master's of Science in Computer science

**Rheinische Friedrich-Wilhelms-Universität Bonn** [ 04/2023 – Current ]

City: Bonn | Country: Germany

### Bachelor of Science in Computer science

**King Abdulaziz University** [ 09/2018 – 06/2022 ]

City: Bonn | Country: Saudi Arabia | Thesis: Recommendation System for Educational Material Quality Assessment

## LANGUAGE SKILLS

**Mother tongue(s):** Arabic

**Other language(s):**

### English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

### German

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

## SKILLS

### Technical skills

Python / NumPy / Scikit-learn / Seaborn / Pandas / Matplotlib / PyTorch / NER / LLM / Data Science / Machine Learning / Deep Learning / AI / LLM Evaluation / Generative AI / Transformers / RAG / Fine-tuning / Hugging Face / NLTK / ASR/TTS / Java / SQL / Linux / SLURM / HPC Clusters / ROS2 / Microsoft Office / PowerPoint / Excel / Word

## Soft skills

Analytical thinking / Teamwork / Problem-solving / Adaptability

## PROJECTS

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[ 04/2025 – 07/2025 ]

### Transformers Navigating Mazes with Multi-Step Prediction

- Improved multi-step planning in transformer agents with MLM-U objective, enabling forward/backward predictions and outperforming standard transformers.
- Engineered transformer in Python (PyTorch, Hydra) with switchable AR and MLM-U modes under PAST encoder-decoder architecture.
- Built benchmarking scripts/datasets incl. A\* traces, showing 4× higher sample efficiency and 2× faster convergence than next-token objectives.

Link: [https://github.com/Sayantak/maze\\_navigation\\_MLMU](https://github.com/Sayantak/maze_navigation_MLMU)

[ 05/2025 – 09/2025 ]

### Scientific Information Extraction

- Designed a modular NLP framework using PyTorch + Hugging Face for biomedical text classification, semantic search, and relation extraction.
- Fine-tuned domain-specific transformers with BioRED dataset.
- Explored RAG pipelines for improved QA accuracy.

Link: <https://github.com/Ziad-Aamer/NLP-Lab-Uni>

## HOBBIES AND INTERESTS

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Jogging

Board Games

Creative Writing