Sulaeman Aloradi

Nationality: Jordanian   **Date of birth:** 22/09/1999   **Place of birth:** Jeddah, Saudi Arabia

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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	German
LISTENING C1 **READING** C1 **WRITING** C1	**LISTENING** A2 **READING** A2 **WRITING** A2
SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1	**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** A2

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

[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

[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

Jogging

Board Games

Creative Writing