Sulaeman Aloradi

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

ABOUT MYSELF

I am a motivated Computer Science master's student nearing graduation, with a strong academic background and hands-on experience in Natural Language Processing (NLP), Artificial Intelligence, and high-performance computing (HPC). Currently pursuing an MSc in Computer Science at the University of Bonn, I combine solid theoretical foundations with practical expertise gained through international education and research collaborations.

WORK EXPERIENCE

Fraunhofer ISE

City: Freiburg | **Country:** Germany

[17/11/2025 - Current]

Scientific research assistant

- Contributed to the development of sophisticated data analysis tools in Python, focusing on the visual representation of multi-dimensional battery metrics.
- Collaborated on the integration of battery datasets into LLM-driven analysis pipelines, exploring the intersection of energy storage and Generative AI.
- Mentored team members on DevOps best practices, specifically focusing on Git workflows to ensure reproducible research and code integrity.

Bonn-Aachen International Center for Information Technology (b-it)

City: Bonn | **Country:** Germany

[01/04/2025 - 30/09/2025]

University research assistant

- 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 & TRAINING

[04/2023 - Current]

Master's of Science in Computer science

Rheinische Friedrich-Wilhelms-Universität Bonn

[09/2018 - 06/2022]

Bachelor of Science in Computer science

King Abdulaziz University

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: B2 **READING:** B2 **WRITING:** B2

SPOKEN PRODUCTION: B2 **SPOKEN INTERACTION:** B2

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