



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.

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

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 a value-guided RL pipeline on KVS data with reasoning traces.
- Scaled training on WestAI (an HPC Cluster) with parallel runs, tuning architectures and hyperparameters.
- Enhanced maze navigation by adding a multi-step prediction (MLM-U) to GPT-2 agents.
- Boosted efficiency by replacing single-head with multi-head attention in GPT2PL.
- Built a SciFive-based QA and extraction system, outperforming BERT and BioBERT.
- Fine-tuned transformer models for NER, relation extraction, NLI, and QA.
- Integrated Hugging Face tools for structured data extraction from scientific literature.

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

Scientific Information Extraction

- Built a modular NLP research framework integrating BioBERT, SciFive, and QA4RE models for tasks such as relation extraction, biomedical text classification, and question answering.
- Implemented training and evaluation pipelines using PyTorch and Hugging Face Transformers.
- Leveraged the BioRED dataset for biomedical relation extraction and fine-tuned transformer models to achieve domain-specific improvements.

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

SKILLS

Technical skills

Python / NumPy / Scikit-learn / Seaborn / Pandas / Matplotlib / Hugging Face / NLTK / Java / SQL / Linux / SLURM / HPC Clusters / Microsoft Office / PowerPoint / Excel / Word

Soft skills

Analytical thinking / Teamwork / Problem-solving / Enthusiasm for new technologies / Adaptability

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

English

LISTENING C1 READING C1 WRITING C1
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING A2 READING A2 WRITING A2
SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HOBBIES AND INTERESTS

Running

Board Games

Creative Writing