

Kyuri Im

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Experience

ScaDS.AI

Graduate Student Research Assistant

Aug 2024 - Apr 2025

Dresden, Germany

- Developed and evaluated LLM-based systems for scientific text simplification, focusing on transforming complex domain content into accessible language.
- Built and maintained structured datasets with full-text and citation-level metadata for large-scale NLP experiments.
- Experimented with multiple LLMs (GPT-4, BERT, LLaMA), applying prompting and model adaptation techniques on scientific corpora.

NetApp Korea

Account Technology Specialist

Sept 2019 - Aug 2023

Seoul, Korea

- Built and automated Python-based data pipelines and services supporting large-scale analytics and ML workloads with strict latency and reliability requirements.
- Designed and deployed infrastructure systems on Azure, including automated provisioning (Ansible) and disaster recovery.
- Collaborated with customers and cross-functional teams to translate business and system requirements into production-ready solutions.

LG Electronics

Software Developer

Jul 2017 - Aug 2019

Changwon, Korea

- Developed embedded C algorithms under strict hardware and performance constraints.
- Built automated QA, simulation, and validation tools using C++, .NET, and Python, improving test coverage and system reliability.
- Contributed to **software-in-the-loop (SILS) simulation infrastructure**
- Recognized as a *Member of the Month* for technical impact and system-level contributions.

Education

- **Technische Universität Dresden**
M.S., Computational Modeling and Simulation
- **Georgia Institute of Technology**
B.S., Computer Science

Selected LLM Systems & Research Projects

Master's Thesis – Evaluation and Bias Analysis of LLM Safety Systems

Sept 2025 – Jan 2026

- Built an evaluation framework to **audit LLM safety behavior**, identifying false refusals and disproportionate suppression across linguistic and demographic dimensions.
- Designed scalable pipelines for **large-scale annotation**, **bias measurement**, and **reproducible benchmarking** of model outputs.
- Analyzed multilingual model behavior to uncover systematic reasoning and refusal failure modes, informing evaluation criteria and mitigation trade-offs.
- Proposed data-level and inference-time mitigation strategies to balance safety constraints with output usefulness.

Conducting a Large-Scale User Study on Scientific Text Simplification

Apr 2025 - Aug 2025

- Designed and ran a human-in-the-loop evaluation study to generate high-quality gold-standard references.
- Analyzed accuracy, readability, and consistency trade-offs across models and prompting strategies.

Klartext: A tool to generate texts in easy language

Aug 2024 - Dec 2024

- Developed an LLM-based system to convert complex public content into plain language for accessibility.
- Experimented with prompting strategies and evaluated outputs across multiple models (GPT-4, LLaMA).

RoBERTuna: Emotion Detection in Text with LLM-Assisted Evaluation

Dec 2024 – Jan 2025

- Built a multi-label emotion classification model using RoBERTa with k-fold cross-validation and hyperparameter optimization (Optuna).
- Improved model performance through dynamic thresholding tailored to varying emotion intensity.
- Analyzed model predictions using confusion matrices and SHAP to understand errors and feature importance.

BookChef – Experimental SLM Recommendation Framework.

Feb 2026 -

- Exploring small language model (SLM) approaches for recommendation systems using embedding-based retrieval.
- Designing and testing lightweight architectures for domain-specific recommendation tasks.

Skills

Programming: Python, Java, SQL

ML & AI: NLP, deep learning, PyTorch, TensorFlow

Systems: data pipelines, distributed processing, automation

Infrastructure: Azure, Ansible, production systems

Publications

Im, K., Yuan, S, Färber, M.

Analyzing Bias in False Refusal Behavior of Large Language Models for Hate Speech Detoxification.

arXiv:2601.08668, 2026

Färber, M., Aghdam, P., Im, K., Tawfelis, M., Ghoshal, H.

SimplifyMyText: An LLM-Based System for Inclusive Plain Language Text Simplification.

ECIR 2025 pp.418-424