Jasmin Kareem

Phone: +31 643939424 | **Email:** jasminkareem505@gmail.com | **Linkedin:** www.linkedin.com/in/JasminKareem

Education

Joint PhD Candidate at the Jheronimus Academy of Data Science (TU/e) and the University of Amsterdam
November 2023 - Present

- I am researching XAI/interpretability in the context of news recommender systems. I am also affiliated with the University of Amsterdam as a member of the Information Retrieval Lab under the supervision of Maarten de Rijke and Martijn Willemsen.

MSc Data Science: Computer Science at Leiden University
September 2021 - November 2023

- Thesis on using Algorithm Selection in MIP-based Neural Network Robustness Verification to improve efficiency.
- Average grade: 7.5

BSc Data Science at TU Eindhoven and Tilburg University
September 2017 - August 2021

- Graduated with an average grade of 7.3. Thesis grade of 8 whilst interning at the Central Bureau of Statistics.
- Projects (Data Challenges) covered the topics in NLP and Time Series Forecasting.

Relevant Projects and Publications

Mechanisms of Trending News in Recommender Systems at WExIR, SIGIR 2025
July 2025

- I presented preliminary findings on using mechanistic interpretability methods to analyze how trending and clickbait articles affect news recommender systems.

Explainability for Engineers at ECIR Search Futures Workshop
June 2024

- Presented my perspective on the future of explainability in information retrieval at ECIR 2024 in Glasgow.
- Published through SIGIR Forum. Follow-up work is currently in the pipeline for a full paper submission.

Master Thesis on Per-instance algorithm selection for improving the efficiency of robustness verification
January 2023 - November 2023

- The goal of thesis was to see whether features from MIP solvers (e.g. Gurobi) could be used to predict the running time of the neural network robustness verification instances and thus using algorithm selection, preemptively choose algorithms that take less time to run. See https://theses.liacs.nl/2849 for details.

Teaching Experience and Internships

Lecturer and TA for Master Course Explainable AI at TU/eindhoven
February 2024 - Present

- Created and taught 3 lectures + tutorials on feature attribution based explanations, counterfactual explanations, and on explanation visualizations.

Student Assistant for Master Course Social Network Analysis at Leiden University
September 2022 - January 202

- Attended tutorial sessions and answered questions from students regarding their assignments. I graded homework assignments and final project papers.
- Helped to give an online training to PhD students in the London area (LISS238 Social Network Analysis)

Intern at Microsoft Netherlands, Customer Success Unit
April 2021 - April 2022

- Between my Bachelor's and Master's studies, I completed an internship at Microsoft in the Netherlands, where I developed proof-of-concept applications for clients using Azure and Power Platform.

Skills

- Fluent in English and German, proficient in Dutch.
- **Programming knowledge:** Python, R, Julia, some C++, etc.
- I am also open and able to learn other programming languages and libraries fairly quickly.