

Lennert Jansen

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SKILLS & LANGUAGES

- **Programming Languages:** Python, R, SQL, MATLAB, C/C++
- **Frameworks:** CUDA, Django, FastAPI, JAX, Matplotlib, NumPy, OpenAI API, Pandas, PyTorch, Scikit-learn
- **Technologies:** Azure, AWS, Docker, DBEaver, Git, Grafana, JIRA, LaTeX, Linux, Swagger
- **Skills:** AI, Econometrics, Data Science, Deep Learning, Machine Learning, Natural Language Processing
- **Languages:** Dutch, English, and **Papiamentu** (Native), Spanish (Limited working proficiency), German (Elementary)

EXPERIENCE

Artificial Intelligence Engineer

Attendi Technology

Feb 2023 - Feb 2024

Amsterdam, the Netherlands

- Developed Dutch speech-to-text models for medical reporting, with 20,000+ monthly users.
- Led implementation of the now standard built-in **Transformer-based** automatic punctuation module.
- Responsible for increasing transcription accuracy of the ASR-solution by approximately 2% through regular training, testing, and deployment of the underlying speech-to-text models.
- Spearheaded development and risk assessment of **LLM-based** writing assistant application using OpenAI API.
- **Tools:** Azure, Azure Data Studio, BitBucket, DBEaver, Docker, Grafana, JIRA, Linux, Notion, OpenAI Azure API, PostgreSQL, Postman, Python, PyTorch, Swagger.

Applied Science Intern

Amazon

May 2022 - Sep 2022

Berlin, Germany

- Developed Amazon Marketplace price and demand time-series simulator for cross-price elasticity estimation using hierarchical Bayesian modeling and causal inference.
- **Tools:** Apache MXNet, AWS (SageMaker, EC2, S3), Clay, JAX, Linux, Python.

Research Assistant

University of Amsterdam, [Dialogue Modelling Group](#)

Jan 2021 - Dec 2021

Amsterdam, the Netherlands

- Trained and evaluated computationally inexpensive end-to-end age-adaptive dialogue models using **PPLM**, GPT-2, DialoGPT, and BERT. [Link to blog and demo](#).
- **Tools:** AWS (EC2, SageMaker, S3), CUDA, Linux, Python, PyTorch, SURFsara Lisa cluster.

Student Data Scientist

Adyen

Jan 2020 - Aug 2020

Amsterdam, the Netherlands

- Developed Forex benchmarking tool that optimized pricing strategies using Oanda API.
- **Tools:** Oanda API, Python, PyTorch.

Graduate Researcher

IBM

April 2019 - Sep 2019

Amsterdam, the Netherlands

- Researched methods for mitigation of unfair biases in ML-guided criminal risk assessment tools.
- **Tools:** Python, PyTorch, and IBM's fair ML framework, AIF360.

EDUCATION

MSc. Artificial Intelligence (cum laude), University of Amsterdam

GPA: 8.1/10.0

2019 - 2021

Amsterdam, the Netherlands

- **Thesis:** "A Plug-and-Play Approach to Age-Adaptive Dialogue Generation" (grade: 8.5/10.0)
- **Remarks:** Published three academic papers, two of which first-authored. Two master degrees overlapped.

MSc. Econometrics, Erasmus University Rotterdam

GPA: 8.2/10.0

2018 - 2020

Rotterdam, the Netherlands

- **Thesis:** "On Algorithmic Fairness and Bias Mitigation in Recidivism Prediction" (grade: 8.8/10.0)

BSc. Econometrics & Operations Research, University of Amsterdam

GPA: 7.3/10.0 - **Thesis** grade: 8.5/10.0

2014 - 2018

Amsterdam, the Netherlands

VWO (A levels), Kolegio Alejandro Paula

GPA: 8/10

2007 - 2013

Willemstad, Curaçao

SELECTED PUBLICATIONS

Jansen, Lennert, Štepan Lars Laichter, et al. (2022). “Controllable Text Generation for All Ages: A Plug-and-Play Approach to Age-Adapted Dialogue Responses”. In: *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Generation, Evaluation & Metrics Workshop. URL: https://dmg-illc.github.io/ai-age-adaptation/papers/GEM_paper.pdf.

Jansen, Lennert, Arabella Sinclair, et al. (2021). “Detecting Age-Related Linguistic Patterns in Dialogue: Toward Adaptive Conversational Systems”. In: *Proceedings of the Eighth Italian Conference on Computational Linguistics, CLIC-it 2021, Milan, Italy, 26-28 January 2022*. URL: <http://ceur-ws.org/Vol-3033/paper47.pdf>.

Groot, Margot J. van der et al. (2021). “Exploring the potential of adapting conversational systems to different age groups: A pilot study”. In: *Proceedings of the Fifth International Workshop on Chatbot Research, CONVERSATIONS 2021, Online virtual event, 23-24 November 2021*. URL: <https://tinyurl.com/mr3tv2xa>.

PROJECTS

Neena (WIP)

[Link to GitHub repo](#)

Working on an application for training AI agents using visual interfaces.

Robust Interpretability of Self-Explaining Neural Networks Project

[Link to GitHub repo](#)

Project for MSc. AI elective, Fair AI, about self-explaining neural networks for enhanced interpretability, assessed through explicitness, faithfulness, and stability evaluated on the COMPAS dataset; accompanying paper and result-generating Jupyter Notebook included in the GitHub repo.

Kurashi Collective Website

[Link to website](#)

Built and currently maintaining website for Kurashi Collective, a clothing brand, DJ-group, and event organizing community founded by my little brother, mutual friends, and me.

Algorithmic Trading Hobby Project

[Link to GitHub repo](#)

Developed algorithmic trading models (LSTMs and Hidden Markov Models) to deal on the Forex market.