Taiki Papandreou

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in Taiki Papandreou

Education

University of Amsterdam   *Sept 2023 – Aug 2025*
Msc in Artificial Intelligence

- **Master Thesis**: Medical Text Simplification: From Jargon Detection to Automated Simplification (TSAR 2025@EMNLP)
- Co-authored a peer-reviewed paper on fairness in Graph Neural Networks (TMLR@NeurIPS 2024)

University of Amsterdam   *Sept 2020 – Aug 2023*
Bsc in Artificial Intelligence, Honours program

- **Bachelor thesis**: Integrating Crude Oil Price for Improved Stock Price Forecasting on Oil Companies using LSTM

Experience

Machine Learning Engineer   *Haarlem, NL*
Lexicon Trainingen   *Sept 2024 – Current*

- Single-handedly developed GenAI tool transforming document creation workflow for language educators, reducing hours of manual work to minutes through automated CEFR level aligned text simplification and exercise generation
- Engineered custom CEFR vocabulary dataset using TF-IDF analysis, enabling accurate level-specific simplification via OpenAI LLMs

AI Engineer   *Amsterdam, NL*
Inloopspreekuuradvocaat   *June 2025 – Sep 2025*

- Implemented RAG-based legal assistance chatbot using Microsoft Azure AI Foundry API, achieving 70% autonomous resolution of 10,000+ annual inquiries while ensuring EU data residency compliance
- Built modular web application with iframe integration and scalable feedback system, ensuring legal compliance and continuous accuracy improvement

NLP Intern   *Amsterdam, NL*
TNO   *May 2022 – July 2022*

- Developed multi-phase NLP pipeline using RoBERTa for workplace accident detection in 300,000+ English and Dutch news articles, achieving 0.89 F1-score through contextual language understanding
- Created labeled dataset from scratch and implemented class imbalance management techniques, delivering scalable methodology for TNO's safety research and trend analysis

Projects

- Enhanced a multimodal segmentation framework for 3D CT scans using foundation models (ViTs, CLIP), proposing group-equivariant features to improve robustness to rotation; validated state-of-the-art generalization on MRI data (SegVol)
- Built a real-time political bias detector using fine-tuned RoBERTa on GDELT news (88.9% accuracy without source features); introduced a "blindspot" metric to highlight asymmetric political coverage

Skills

Programming: Python, R, SQL, C, PHP
AI/ML: PyTorch, TensorFlow, Transformers, Azure AI Foundry, OpenAI APIs, Pandas, NumPy, OpenCV, SpaCy, NLTK
Cloud & Enterprise: Microsoft Azure, REST APIs, Streamlit, FastAPI
Languages: Dutch, English, Japanese
Interests: Rock climbing, CrossFit

Publications

Medical Text Simplification: From Jargon Detection to Automated Simplification	Nov 2025

Taiki Papandreou, Jan Bakker, Jaap Kamps

University of Amsterdam at the CLEF 2025 SimpleText Track	Aug 2025

Taiki Papandreou, Jan Bakker, Jaap Kamps

https://ceur-ws.org/Vol-4038/paper_359.pdf ↗

Reproducibility Study Of Learning Fair Graph Representations Via Automated Data Augmentations	Aug 2024

Thijmen Nijdam, Juell Sprott, *Taiki Papandreou-Lazos*, Jurgen de Heus

https://arxiv.org/abs/2409.00421 ↗