ARTHUR THUY

NLP Researcher | PhD in Machine Learning

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Arthur Thuy

PROFILE

Set to graduate in October 2025, I am a PhD researcher in Machine Learning, specializing in Natural Language Processing and Uncertainty Quantification with neural networks. I am passionate about advancing Machine Learning applications through innovation and collaboration, employing creative problem-solving and analytical skills to tackle complex challenges.

EXPERIENCE

Ph.D., Data Analytics cluster of Business Economics

Ghent University

Aug 2021 – Ongoing   Ghent, Belgium

- Supporting personalized learning for students with natural language processing techniques, extracting insights from unstructured text
- Ensuring safe deployment of ML models in industrial applications by quantifying uncertainty, determining when a model's output should (not) be trusted
- Published 2 journal papers and 1 conference proceeding, presenting my work at 4 international conferences
- Teaching assistant in my first semester for Data Mining (F000759) and Machine Learning (F000942); supervised 3 Business Engineering master's theses, one leading to a publication
- Supervisor: Prof. dr. Dries F. Benoit

Data Engineer, summer internship

element61

Jun 2020 – Aug 2020   Brussels, Belgium

- Python web scraping of e-commerce webshops
- Microsoft Azure Data Storage and DevOps CI/CD
- PySpark pipeline to extract, transform, and load raw web data
- Apache Airflow scheduling and orchestration of the workflow

EDUCATION

M.Sc., Business Engineering: Data Analytics

Ghent University

Sep 2019 – Jul 2021   Ghent, Belgium

- Grade: Summa Cum Laude
- Dissertation: "Bayesian Deep Knowledge Tracing: Towards Uncertainty Estimation" (supervisor Prof. dr. Dries F. Benoit)

B.Sc., Business Engineering

Ghent University

Sep 2016 – Jul 2019   Ghent, Belgium

TECHNICAL SKILLS

Python – ML
PyTorch, TensorFlow, Pandas, Keras, NumPy, Scikit-learn, Matplotlib, Optuna

Python – NLP
Transformers, Langchain, Ollama

Terminal
UNIX, Bash/Zsh, Git, Conda, Poetry

Other
R, SQL, PySpark, LaTeX, MS Office

SOFT SKILLS

Analytical thinking   Attention to detail
Problem-solving   Time management
Teamwork   Effective communication

LANGUAGES

Dutch	Native	
English	C1	●●●●●
French	B2	●●●●○
German	B1	●●●○○

HONORS & AWARDS

PhD fellowship

Research Foundation Flanders (FWO)

Nov 2021

Sofico Award

Best student in Business Engineering – Data Analytics

Oct 2021

REFEREES

Dr. Ekaterina Loginova
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