Zuzanna Bartczak

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Profile

AI engineer with experience in both academic research and industry applications, focused on natural language processing, large language models, and retrieval-augmented generation. Skilled in building and deploying language-based systems using Azure and modern transformer architectures. Interested in developing practical and reliable AI solutions.

Education

Uppsala University, Sweden   *08.2022 – 09.2024*
Master of Arts in Language Technology

- Thesis: *From RAG to Riches: Evaluating the Benefits of Retrieval-Augmented Generation in SQL Database Querying* (collaboration with Munters AB)
- Relevant coursework: Information Retrieval, Machine Learning, Data Visualization and Statistics

University of Gdańsk, Poland   *10.2018 – 06.2021*
Bachelor of Arts in English Language – Specialization in Translation

- Graduated with distinction; Diploma thesis and examination grade: 5.0/5.0

Professional Experience

Munters Group AB – AI & Data Analysis Researcher   *10.2024 – 04.2025*

- Led development of retrieval-enhanced generation pipelines using LLaMA models
- Designed scalable data pipelines and managed deployments on Azure

Munters Group AB – Master Thesis Student   *02.2024 – 10.2024*

- Developed a robust LLM-based SQL chatbot integrating GPT-3.5/4 and LLaMA models
- Enhanced retrieval-augmented generation pipelines for industrial querying tasks
- Designed and optimized SQL queries over large datasets (Microsoft SQL Server)

Learnetic S.A – AI E-learning Content Editor   *10.2021 – 07.2024*

- Generated and validated multilingual NLP-based e-learning content
- Assisted in designing model evaluation workflows for AI-based education tools

Technical Skills

Programming Languages & Libraries

- Python, SQL, R
- Pandas, NumPy, Matplotlib
- Scikit-learn

Machine Learning & Deep Learning

- PyTorch, TensorFlow
- Large Language Models
- Model Evaluation
- Neural Networks (CNNs, RNNs, LSTMs, Transformers)

Natural Language Processing (NLP)

- Retrieval-Augmented Generation (RAG)
- LangChain
- Prompt Engineering
- Vector Databases: FAISS, Chroma, PGVector

Cloud & DevOps

- Azure, Azure OpenAI, Azure DevOps
- Amazon Web Services (AWS)
- Google Cloud Platform (GCP)
- Docker, Kubernetes
- Git, Version Control