MAXIMILIAN WEISSENBACHER

Senior AI Engineer

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Portfolio • LinkedIn • GitHub • HuggingFace • Google Scholar • Ollama

SUMMARY

Senior AI Engineer with deep experience in NLP, GenAI, and large-scale document understanding systems. First engineer and technical lead in production ML platforms, spanning research, infrastructure, and high-impact applications. Published researcher with hands-on ownership of mission-critical AI pipelines.

WORK EXPERIENCE

PwC, Munich

Senior AI Engineer (Promoted from Associate in 2025) | Oct 2023 – Present

- First engineer and founding member of PwC's AI engineering practice for the German public sector; scaled the team from inception to 10+ engineers
- Technical lead for data extraction in a multi-agent system automating energy infrastructure approvals (wind farms, gas pipelines), reducing legal review cycles from 3 years to 6 months; owned end-to-end OCR and document understanding pipelines forming the foundational data layer for a 50-person program
- Designed and operated production LLM inference stacks (open-source models) with focus on reliability, performance, and strict security constraints
- Led development of production GenAI applications:
    - Document analysis tool: -60% decision latency
    - Multimodal RAG chatbot: +25% productivity; awarded by Wirtschaftswoche "Best of Consulting" prize
    - GraphRAG system for legal entity disambiguation

University of Regensburg

Research Assistant – Machine Learning | 6 Months (2023)

- Developed early warning system for adolescent mental health using BERT (text classification), GPT-3 (data augmentation, few-shot learning), and prompt engineering

Amazon, London

Data Science Intern | 5 Months (2022)

- Built multivariate time series forecasting system on AWS for carrier-level demand prediction at UK's two largest fulfillment centers
- Developed ensemble models (LightGBM, Prophet, DeepAR) improving forecast accuracy by 6.6% (WK+1) and 7.7% (intraweek); projected seven-figure GBP annual savings
- Model expanded to entire UK and EU fulfillment network

SAP, *Munich - Data Analytics Working Student | 12 Months (2021)*

BMW, *Regensburg - Oracle APEX Development Intern | 4 Months (2019)*

EDUCATION

University of Regensburg

M.Sc. Information Science | 2021 – 2023 | Grade: 1.2 (GPA 3.8), Top 5%

Focus: Data Science, Natural Language Engineering, Machine Learning, Deep Learning

B.A. Media and Information Science | 2018 – 2021

Courses: NLP with Python, OOP in Java, Algorithms & Data Structures, Information Retrieval

Gymnasium LSH-Marquartstein - Abitur | 2016

PUBLICATIONS

[MINI-KID interviews with adolescents (2024)](#)
Corpus-based language analysis using ChatGPT. Frontiers in Psychiatry 15: 1425820

[Analyzing Offensive Language and Hate Speech in Political Discourse (2024)](#)
Transformer ensemble, 0.94 F1-Macro on 2.7M+ tweets. TRAC @ LREC-COLING 2024

[Steps towards Text Classification in Low-Resource Languages (2023)](#)
Data augmentation with LLMs. KONVENS 2023

[Sentiment Analysis on Twitter for German Parties (2022)](#)
60k annotated texts, fine-tuned BERT. KONVENS 2022

SKILLS

Core Expertise: ML-Systems | NLP | GenAI | Document Understanding | ML Infrastructure

Tech Stack: Python, SQL, FastAPI, Docker | PyTorch, Transformers, vLLM | LangGraph, Neo4j, Postgres | AWS, GCP, Azure

Languages: German (native), English (fluent)

Interests: Soccer (team captain), Kitesurfing, Skiing