Faizan E Mustafa

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ABOUT ME

I apply cutting-edge NLP research to extract useful information from unstructured data. I am a published author in the *Artificial Intelligence in Medicine* journal, as well as in workshops at the *EACL* and *NAACL* conferences.

WORK EXPERIENCE

NLP Engineer

QUIBIQ GmbH [10/2022 – Current]

City: Stuttgart | **Country:** Germany

- Developed a dashboard to assist hospital staff in ICD coding to improve the billing process
- Used Generative AI to create a dataset for Biomedical Named Entity Recognition in a low-resource setting
- Implemented a method to create a Biomedical Knowledge Graph using Wikidata for Entity Linking in German

Werkstudent Natural Language Processing

QUIBIQ GmbH [12/2019 – 10/2022]

City: Stuttgart | **Country:** Germany

- Developed a system to automate the generation of RFQ files and deployed using Azure functions
- Implementation of Graph Neural Network for the prediction of diseases using medical procedures
- Link Prediction using Graph Neural Network to annotate PubMed Abstracts with MeSH Headings

EDUCATION AND TRAINING

MSc Computational Linguistics

Universität Stuttgart [10/2019 – 10/2022]

Country: Germany

PUBLICATIONS

[2024]
Leveraging Wikidata for Biomedical Entity Linking in a Low-Resource Setting: A Case Study for German

[2022]
Graph neural network modelling as a potentially effective method for predicting and analyzing procedures based on patients' diagnoses

[2023]
The Aluminum Standard: Using Generative Artificial Intelligence Tools to Synthesize and Annotate Non-Structured Patient Data

[2023]
Annotating PubMed Abstracts with MeSH Headings using Graph Neural Network

[2023]
DEExtract: A Customizable Context-Based German Vocabulary Learning Tool

DIGITAL SKILLS

Python / ML Libraries (Numpy, Pandas etc.) / PyTorch / PyTorch Geometric / Transformers / LangChain /
Docker / SQL / PostgreSQL / GitHub / Dash / Streamlit / MLflow / FastAPI / Azure DevOps / Azure Function

HONOURS AND AWARDS

Microsoft
Azure AI Engineer Associate (AI-102)

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s): English (Fluent) | German (Goethe-Zertifikat B1)

HOBBIES AND INTERESTS

Book Reading, Badminton, Cricket