

Aida Usmanova

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🌐 github.com/aidausmanova

EDUCATION

Leuphana University of Lüneburg

Ph.D., Natural Language Processing

Lüneburg, Germany

Nov 2023 - Present

University of Hamburg

MSc., Intelligent Adaptive Systems

Hamburg, Germany

Nov 2020 - Sep 2023

Kazakh British Technical University

BTech, Information Systems, GPA: 3.7/4.0, Degree: 1st Class Honours

Almaty, Kazakhstan

Aug 2016 - Jul 2020

Sejong University

Exchange program, GPA: 4.5/4.5

Seoul, South Korea

Feb 2019 - Jul 2019

WORK EXPERIENCE

UNSSC

Apr 2023 - Present

AI and Learning Analytics Engineer

- Collaborated with cross-functional teams of engineers to enhance learning experience through personalized recommendation system by utilising ML and NLP techniques
- Leveraged MySQL, Python, Informatica and internal tools to perform ad-hoc queries, merge data from multiple sources and improve reporting system

Fraunhofer IAPT

Nov 2021 - Oct 2023

Student Research Assistant

- Led a Python and QML-based software development for robot-assisted additive manufacturing monitoring system
- Digitized additive manufacturing process by designing and developing an automated dashboard
- Conducted training sessions for interns and business users

Adalab.ai

Nov 2022 - Aug 2023

Machine Learning Engineer

- Optimized performance and prediction accuracy through data engineering and machine learning techniques
- Enhanced AI-assisted video generation through prompt engineering on Deep Learning models, e.g. Transformers, GPT-3

Codebusters

Jul 2019 - Jan 2021

Backend Developer

- Developed secure Django-based backend for software that's currently being used by the largest retailer in Kazakhstan
- Enhanced monitoring system for railways company by building modular and scalable backend for automated dashboards using Neo4J
- Engaged with clients to understand project requirements and provide progress updates and incorporated feedback to meet client expectations

PUBLICATIONS

- **Aida Usmanova**, Ricardo Usbeck (2024). Structuring Sustainability Reports for Environmental Standards with LLMs guided by Ontology. ClimateNLP @ ACL 2024.
- Hamed Babaei Giglou, Tilahun Abedissa Taffa, Rana Abdullah, **Aida Usmanova**, Ricardo Usbeck, Jennifer D'Souza, Sören Auer (2024). Scholarly Question Answering using Large Language Models in the NFDI4DataScience Gateway. NSLP @ ESWC 2024.
- Daniyar Amangeldi, **Aida Usmanova** and Pakizar Shamoï (2024). Understanding Environmental Posts: Sentiment and Emotion Analysis of Social Media Data. IEEE Access.
- **Aida Usmanova**, Junbo Huang, Debayan Banerjee, Ricardo Usbeck (2023). Reporting and Analysing the Environmental Impact of Language Models on the Example of Commonsense Question Answering with External Knowledge. Sustainable AI 2023.

TECHNICAL SKILLS

- Python, SQL, PyTorch, Django, QML, QT, Sklearn, OWL, Celery, MongoDB, NumPy, Neo4j