MARIA OBEDKOVA

NLP/AI ENGINEER

✉ maryobedkova@gmail.com

🌐 maobedkova.github.io

in mobedkova

BIO

NLP/AI Engineer with 5+ years of industry experience with Machine Learning and Large Language Models, backed by a strong linguistics background. Skilled in developing diverse NLP and AI applications, with a passion for advancing AI, building impactful products, and enhancing human-computer interaction.

WORK EXPERIENCE

Apr 2020-present

TrustYou GmbH | Munich, Germany

Senior NLP Engineer

ML - LLMs - ABSA - GenAI - CI/CD - MLOps - RAG - BERT - GPT Python - PyTorch - HuggingFace - LangChain - MLFlow

- Developed several GenAI solutions and defined their improvement lifecycle
- Developed a Transformer-based solution for ABSA, scaled it up for 20+ languages and millions of reviews per month
- Defined system designs for ML and DL applications

Jan 2019 - July 2019

Sony Europe | Stuttgart, Germany

ASR Research Intern

DL - ASR - Embeddings - Python - Java - Kaldi - TensorFlow

- Researched different deep learning approaches to pronunciation generation for speech recognition
- Investigated Acoustic Word Embeddings and improved their quality for a pronunciation discrimination task
- Developed a completely new data-driven method of pronunciation generation for ASR purposes

SKILLS

Technical skills
- Natural Language Processing
- Large Language Models
- Machine Learning & Deep Learning
- Model Fine-Tuning & Optimization
- Data Preprocessing & Feature Engineering
- Databases & Information Retrieval
- MLOps, Cloud Computing, CI/CD

Soft skills
- Problem-Solving
- Effective Communication & Collaboration
- Project Management
- Research & Development Practices
- Mentorship

EDUCATION

2017-2019

MA COMPUTATIONAL LINGUISTICS
- Charles University in Prague
- University of Basque Country

2013-2017

BA FUNDAMENTAL AND APPLIED LINGUISTICS

National Research University Higher School of Economics

PROJECTS

TY Semantic Analysis

Developed a system that performs multilingual Aspect-Based Sentiment Analysis for more than 20 languages using Transformer architecture

TY ResponseAI

Developed an automated review response system using LLMs and RAG

NLP Augmenter Sentiment Filter

Contributed to the open-source NLPAug library with the sentiment verification filter

TY SummaryAI

Developed a review summarisation and key insights extraction system using LLMs and optimized it for a large number of reviews

TY Impact Score

Developed an ML system for detecting impactful factors for hospitality businesses

HuggingFace Robust Speech Challenge

Trained a Speech Recognition model for the Russian language