

Daniil Gurgurov

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Skills

- Python | R | Java | HTML5 | CSS | Git | bash | Docker | LaTeX | VSCode | Jupyter | Cluster Computing | Praat | OverLeaf
- Scikit-Learn | PyTorch | TensorFlow | NumPy | Pandas | Matplotlib | Plotly | Transformers | NLTK | SpaCy | Gensim | Gradio
- Natural Language Processing | Computer Vision | Research & Development | Russian (*Native*), English (*Fluent*), German (*Intermediate*)

Experience

Research Assistant

German Research Center for AI (DFKI)

Germany 07/2023 - now

- Focus on supporting experiments for the [LT-Bridge](#) project, dedicated to advancing AI-related technology for low-resource languages
- Built [GloVe embeddings](#) and retrofitted them with the ConceptNet graph knowledge for 70+ low-resource languages
- Developed a methodology for [injecting graph knowledge](#) into multilingual LLMs via adapters for facilitating low-resource languages
- Gathered 30+ [sentiment analysis datasets](#) along with the sources for testing word embeddings and multilingual LLMs
- Trained and [fine-tuned LLMs](#) (mBERT, XLM-RoBERTa, Whisper) for Named Entity Recognition, Machine Translation, Speech-to-Text

Language Manager

YouFact LLC

USA 04/2017 - 04/2018

- Worked for a technology marketing company producing videos on [YouTube](#) for 4+ million audience in 5+ languages
- Analyzed AI-driven content creation platforms to enhance efficiency and productivity in content production
- Managed workflow of 10+ freelance translators and voiceover artists ensuring the quality and consistency of translations and voiceovers
- Edited audio for optimal quality using WavePad / Audacity (noise reduction, volume normalization, synchronization)

Education

Master of Science

Saarland University

Germany 10/2022 - 12/2024

- Major in Language Science and Technology (1.7/5.0, best: 1.0)

Exchange Semester

Murray State University

USA 08/2019 - 12/2019

- Focus on Public Speaking, Web Design, Politics; Dean's List (3.75/4.0, best: 4.0)

Bachelor of Arts

Transnistrian State University

Moldova 09/2018 - 09/2022

- Double Major in Linguistics and Pedagogy; Magna Cum Laude (4.9/5.0, best: 5.0)

Online Courses

- **HuggingFace:** [Computer Vision](#) (CNNs; VisTransformers; CLIP; Diffusion Models; Image Classification & Segmentation; Object Detection)
- **Stanford University:** [Deep Learning Specialisation](#) (Supervised & Unsupervised ML; Recommenders; Reinforcement Learning)
- **HuggingFace:** [Natural Language Processing](#) (Transformers: Encoder, Decoder, Sequence-to-sequence; Fine-tuning LLMs; Tokenizers)
- **Google Cloud:** [Large Language Models](#) (Attention Mechanism; Generative AI; Image Generation; Responsible AI)
- **Data Camp:** Statistical Analysis with R ([Intermediate R](#); [Hypothesis Testing](#); [Regression Models](#); [Bayesian Data Analysis](#))

Projects

- **Pet Classifier:** Fine-tuned [CLIP model](#) for pet classification and built a HuggingFace Spaces mini-app with Gradio
- **Mental Health in Literature:** Created a HuggingFace Spaces [mini-app](#) for “diagnosing” literature characters with mental disorders
- **Vector Space Retrieval Model:** Built a simple search engine using a TF-IDF vectorizing schema from scratch
- **Mensa Telegram Bot:** Developed a bot for scraping menus with BeautifulSoup and translating them with Google Translate API

Awards

- **DAAD Fellow** - Pursuing graduate education in Germany through the [DAAD Scholarship](#) (Acceptance < 5%) (**10/2022 - 10/2024**)
- **Diamond Challenge Runner-up** - Represented a company creating eco-friendly toys at the [Entrepreneurship Contest](#) (**02/2020**)
- **Global UGRAD Fellow** - Served as an Ambassador of Moldovan culture at [WorldLearning Summit](#) (Acceptance < 3%) (**11/2019**)
- **Geography Olympiad Winner** - Achieved first place at the Republic [Geography Competition](#) (200 participants) (**04/2018**)

Others

- **TaCoS Organization** - Attracted funding and helped with facilitation of Student Conference on Computational Linguistics (**05/2024**)
- **LT-Bridge Facilitation** - Facilitated Winter School on Low-Resource NLP and PEFT at German Research Center for AI (**03/2024**)
- **SciProS Participation** - #2 poster on multilingual LLMs of 25+ at Student Conference at Technical University of Kaiserslautern (**01/2024**)
- **Military Service** - Did an obligatory-by-state one-year military service with a three-month sergeant position (**08/2020 - 08/2021**)
- **American Spaces Volunteer** - Organized diverse events on American culture and advised on UGRAD applications (**01/2020 - 12/2021**)