Viktor Moskvoretskii

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AI Researcher focusing on NLP, AI Safety and Trustworthiness.

Education

M.S. in Applied Mathematics and Informatics – HSE University, Moscow 09.2023 — 06.2025

GPA: 9.8/10; Core Subjects: Deep Learning, Software Engineering

Diploma in Applied Mathematics and Informatics – MSU, AI Masters 09.2021 — 06.2023

GPA: 8.5/10; Core Subjects: Deep Learning, NLP, RL

B.S. in Neuroscience – HSE University, Moscow 09.2018 — 06.2022

GPA: 9.18/10; Graduated with honors; Core Subjects: ML, Neuroscience, Cognitive Science

Positions

Research Engineer — Skoltech 07.2023 — Present

- LLM Trustworthiness, Mitigating Hallucinations
- LLM Compression via Quantization, Sparsification, Tensor Decomposition
- Multivariate Time-Series Unsupervised Learning

Guest Lecturer — HSE University 08.2023 — Present

- Lecturer at NLP Course
- Research Advisor of 2 bachelor theses in 2024, graded 10/10.

Intern Researcher — Machine Learning and Semantic Analysis Lab, MSU 01.2023 — 07.2023

- Propaganda Detection with LLM via NER and Relation Extraction
- Mitigation socio-political biases by identifying and classifying propaganda.

Intern Researcher — DeepPavlov.ai 08.2022 — 06.2023

- Image2Text Dialogue Data Research
- Methodology of Learning MultiModal Models in Dialogue

Data Scientist — VTB Housing Ecosystem 07.2020 — 07.2021

- Development of Internal Text Data Analysis Product, Sentiment Analysis

Intern Researcher — HSE UX Lab 09.2019 — 03.2020

- Data analysis, statistical modeling in Neuroscience

Achievements

Paper Reviews — Reviewer at ACL, EMNLP, LREC, COLING, AINL

Yandex Scholarship — Awarded for exceptional GPA and significant research contributions in 2024.

HSE Academic Scholarship — Awarded for outstanding academic performance in 2024.

Best Paper Award — HSE 2023 best student paper award

Publications

A*, Q1

- [Accepted to ACL Main]: Moskvoretskii, V., Neminova, E., Lobanova, A., Panchenko, A., & Nikishina, I. (2024). TaxoLLaMA: WordNet-based Model for Solving Multiple Lexical Sematic Tasks. arXiv preprint arXiv:2403.09207.
- Andreev, S., Moskvoretskiy, V., Gorin, A., & Zinchenko, O. (2024). Grapheme-color synesthesia induction with V4 transcranial direct current stimulation. Current Psychology, 1-6.
- Andreev, S., Moskvoretsky, V., Gorin, A., & Zinchenko, O. (2023). Induction of grapheme-color synesthesia-like effects in non-synesthetes via offline anodal tdcs over visual cortex in area v4. Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation, 16(1), 274.

A, B

- Moskvoretskii, V., Panchenko, A., & Nikishina, I. (2024, May). Are Large Language Models Good at Lexical Semantics? A Case of Taxonomy Learning. In Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024) (pp. 1498-1510).

Preprint, Local Conference

- [Submitted to EMNLP]: Moskvoretskii, Viktor, et al. "Low-Resource Machine Translation through the Lens of Personalized Federated Learning." arXiv preprint arXiv:2406.12564 (2024).
- [Submitted to NeurIPS Main]: Moskvoretskii, Viktor, et al. "Self-Supervised Learning in Event Sequences: A Comparative Study and Hybrid Approach of Generative Modeling and Contrastive Learning." arXiv preprint arXiv:2401.15935 (2024).
- Moskvoretskii, Viktor, and Kuznetsov Denis. "Imad: Image-augmented multi-modal dialogue." arXiv preprint arXiv:2305.10512 (2023)