KONSTANTIN CHERNYSHEV

NLP Researcher and Engineer

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EXPERIENCE

Machine Learning Researcher
📅 Jun 2024 – Present
Toloka AI, Germany
- ACL 2025 accepted, multimodal university-level math benchmark;
- Developed a substantial part of Agentic Platform for Human-AI collaboration; evaluation, improving the quality on 30%+;

(Agents) (Evaluation) (PyTorch) (HuggingFace) (GenAI) (Human-AI Quality)

NLP Data Scientist
📅 Jan 2022 – Sep 2022
EPAM Systems, Serbia
- Trained an unsupervised model for support ticket trends over time;
- Implemented a processing team predictive model, improving ticket processing efficiency by ~10s seconds per ticket for 100k tick./year.

(Python) (FastText) (SkLearn) (PyTorch) (HuggingFace) (PyTest) (Docker) (Jenkins)

Python Course Head, Lecturer
📅 Jan 2021 – Present
Yandex School of Data Analysis, Russia
- Led an Advanced Python course for 300-500 students yearly;
- Managed a team of 9 people, planning, review, tech supervision;
- Boosted assignment-checking system (e.g 6x acceleration).

(Management) (Python) (Teaching) (Docker) (PyTest) (Gitlab-CI) (Github-Actions)

Research Engineer, Project Manager
📅 Apr 2020 – Jan 2022
Gorky AI (startup), Russia
- Managed 2-4 developers per project, liaising with clients;
- Introduced Align flow, CI/CD, code reviews, improved teamwork;
- Developed a high-loaded 'roads quality' model on sensors data;
- Designed and developed a solution for scanned document analysis, trained a high mAP (~0.94) CV model for tables, imgs, and stamps.

(Python) (PyTorch) (HuggingFace) (SkLearn) (PyTest) (ONNX) (Docker) (Gitlab-CI)

Internships: 🔗 JetBrains Research (2023), 🔗 GroNLP at University of Groningen (2022), 🔗 LATNA at Higher School of Economics (2019-2020)

EDUCATION

Master of Science (NLP)
📅 Sep 2022 – Aug 2024
Groningen & Saarland Unis., Netherlands & Germany
Erasmus Mundus "Language & Communication Technologies";
GPA: 8.7/10 +Assistant at Language Technology Project;
Thesis on Mechanistic Interpretability for LLM pruning.

Post Graduate 2-year Program (Data Science)
📅 Sep 2019 – Jul 2021
Yandex School of Data Analysis, Russia
Top Russian Data Science program with 3% acceptance rate;
GPA: 8.9/10; +Assistant at Python Course.

Bachelor of Science (Applied Math and CS)
📅 Sep 2017 – Jul 2021
Higher School of Economics, Russia
GPA: 9.1/10; +Assistant at Algorithms and Data Structures.
Thesis on Abstractive Text Summarization Knowledge Graphs.

SUMMARY

Passionate Researcher with 6+ years of experience, doing XAI, Pruning and Agents;
- 6+ years of programming, 5+ of NLP Research experience in Startups, EPAM, JetBrains and Toloka AI;
- MsA with Honors at Erasmus Mundus LCT; BaSc with Honors in HSE, Russia;
- Completed 10+ ML research projects.

SKILLS

- Data Science
  (NLP) (Agents) (Evals) (XAI) (Pruning) (Compression) (Speech) (RL)
- Frameworks
  (HuggingFace) (PyTorch) (SkLearn) (Tensorflow) (NLPCore) (TorchText)
- Programming Languages
  (Python) (Rust) (C++) (CUDA) (GoLang)
- Development Tools
  (git) (Docker) (Neptune.ai) (GitLab-CI) (GitHub-Actions) (Ansible) (ONNX)
- Languages
  (Russian) (English) (German) (Serbian)

PUBLICATIONS

- 🔗*LCT-1 at SemEval-2023 Task 10: Pre-training and Multi-task Learning for Sexism Detection and Classification* [accepted, ACL-2023 workshop];
- 🔗*U-MATH: A University-Level Benchmark for Evaluating Mathematical Skills in LLMs* [accepted, ACL-2025 workshop];

ACHIEVEMENTS

- Erasmus Mundus Scholarship 2022-2024; Honours Master's degree in NLP;
- Honours Bachelor's degree in CS;
- Largely improved Python course at YSDA, Top-1 by students' rating;
- Finished YSDA - Master's-level Data Science program, 3% acceptance rate.

PERSONAL

Cheerful and sociable person, keen on slackline and juggling, love music making.
(Music Production) (Juggling) (Slackline)