

# Kirill Semin

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## EXPERIENCE

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**ML engineer (part-time)** Mar 2023 - Now  
*peoplerr (ex. TrendScout) | Moscow, Russia (remote)*

- Enhanced look-alike company search system for lead generation and competitor analysis through multiple iterations;
- Achieved x11 performance improvement and 83% top-5 accuracy in the latest iteration;
- Integrated techniques such as summarization, doc-to-vec embedding, fast embedding lookup, and a two-stage ranking process;
- **Skills:** BERT, BART, Transformers, Milvus, Triton, active learning, crowdsourcing, Pytorch, PostgreSQL, Docker

**ML engineer in NLP** Sep 2021 - Feb 2023  
*Neiro.AI (ex. Myna Labs) | San-Francisco, USA (remote)*

- Trained various large language models (up to 175B params) achieving near-GPT-3.5 dialogue quality, as evaluated by user metrics;
- Developed an easily configurable, modifiable & scalable training pipeline that was widely adopted for in-house experiments;
- Conducted in-depth research on product/ML hypotheses such as **facts retrieval**, emotion & topic conditioning and negative sampling, and translated them into actionable insights for the product.
- **Skills:** Large Language Models, GPT, BERT, Transformers, Pytorch, DeepSpeed, Pandas, A/B-tests, Docker

**ML engineer in NLP | Moscow, Russia** Sep 2020 - Sep 2021  
*Sberbank*

- Developed a data augmentation and label denoising pipeline to reduce time and resource consumption for new intent deployment to recognizer;
- Implemented MLOps to streamline deployment and improve development and experimentation structure.
- **Skills:** BERT, Transformers, MLOps, MLFlow, Docker

**AI Video Processing Specialist | Moscow, Russia** Apr 2020 - Sep 2020  
*Huawei Technologies*

- [NDA] Test hypotheses on the application of deep learning for video processing;
- Vectorized video processing algorithms by implementing them in Pytorch making them tenfold faster.
- **Skills:** Pytorch, OpenCV, Variational Autoencoders

**Software Developer Intern | Moscow, Russia** Jun 2019 - Sep 2019  
*Yandex N.V.*

- Designed and implemented an **intersection finding algorithm** for A/B testing to find and fix statistically dependent experiments;
- Developed functional testing system for one of the services of the product.
- **Skills:** Java, Functional Testing, CI, Docker

## EDUCATION

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**Master's degree, Information Systems and Technology** 2019-2021  
*Bauman Moscow State Technical University | Moscow, Russian Federation*  
GPA: 4.9/5

**Bachelor's degree, Information Systems and Technology** 2015-2019  
*Bauman Moscow State Technical University | Moscow, Russian Federation*  
GPA: 4.8/5

## SKILLS

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**Languages:** Python, SQL, Java, C/C++

**Frameworks:** Pytorch, Transformers, DeepSpeed, ParlAI, Scikit-learn, Pandas, Matplotlib, NLTK

**Tools:** Git, Docker, Google Cloud Platform, A/B tests

## OTHER ACTIVITIES

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**Project:** DeepModerator — [gitlab.com/deepmoderator](https://gitlab.com/deepmoderator)

Nov 2018 - July 2019

- Applied **NLP**, **active machine learning** (human-in-the-loop) and automatic data collection & interpretation to develop a platform for toxic comments moderation. Deployed using **Google Cloud Platform**.