Kirill Semin

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EXPERIENCE

ML engineer in NLP (LLM)   Sep 2021 - May 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

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

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

Project: DeepModerator — 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.**