Alexander Smirnov

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EDUCATION

Moscow Institute of Physics and Technology **Moscow, Russia**
Master of Science, Artificial Intelligence *Expected Graduation Date: Jun 2023*

Saint Petersburg State University **Saint Petersburg, Russia**
Bachelor of Science, Computer Science *2021*
- Degree Thesis: *A hybrid approach for news recommender system*
- Course Thesis: *Core sample images segmentation*

WORK EXPERIENCE

Booking.com **Amsterdam, Netherlands**
Machine Learning Engineer *Jul 2022 - now*
- Enchanting machine learning related backend logic

Myna Labs **Tbilisi, Georgia**
Deep Learning Researcher *Feb 2022 - Jun 2022*
- Fine-tuning large GPT-like models (GPT-Neo, OPT) on dialogue data to create open-domain dialogue engine
- Deploying models to productions environment
- Collecting and processing dialogue datasets
- Inventing and implementing dialogue engagement mechanics

Ten Square Games **Wrocław, Poland**
Data Scientist *May 2021 - Nov 2021*
- Conducted research on players' purchase activity by analyzing ensembles of algorithms using A/B testing to implement best-in-class in-game item recommendations reaching 50M+ consumers, resulting in a 6% increase in revenue from in-game items
- Built forecast models by engineering new features to predict player churn with a 0.8 F1 score
- Collaborated cross-functionally with customer support teams by evaluating automatic issue labeling to resolve payment issues faster

yarus.ru **Saint Petersburg, Russia**
Machine Learning Engineer *Aug 2020 - Apr 2021*
- Pioneered news & video recommender systems by evaluating different approaches, analyzing customer engagement, designing system architecture end-to-end using microservices, and deploying all modules to increase average session duration on news feed by 20%
- Optimized product by solving cold start, data sparsity, and delayed recommender reaction on users' actions problems to improve CTR by 15%

JetBrains **Saint Petersburg, Russia**
Machine Learning Engineer (Intern) *Sep 2019 - Dec 2019*
- Applied segmentation algorithms to 10k core sample images in order to predict core properties

Belkasoft **Saint Petersburg, Russia**
Machine Learning Engineer (Intern) *Jul 2019 - Aug 2019*
- Trained NSFW detection models and augmented data to boost the model performance by 10%

ADDITIONAL EXPERIENCE

Projects: [TrumpBot](#), [Meme App](#), [Terminal Tetris](#), [Siamese Neural Networks](#), and more
Hackathons: Participant in 6+ hackathons, including multiple top 3 awards
Online Courses: Statistics, Supervised / Unsupervised Learning, Sequence Models, and more

SKILLS

Skills: NLP (GPT, BERT, word2vec, transformers, nltk, gensim), Deep Learning (LSTM, DCGAN, ResNet, DQN), Machine Learning (trees, boosting, clustering), Big Data (Hadoop, HDFS, MapReduce, Hive, PySpark, Airflow), Python (PyTorch, pytorch-lightning, surprise, optuna, wandb, flask), Databases (S3, MySQL, MongoDB, PostgreSQL, Vertica), Linux (arch, i3, vim, zsh), C++, C#, Java