**Alexander Smirnov**

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| **EDUCATION** |
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**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** |
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**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** |
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[**Projects**](https://github.com/SmirnovAlexander/CV/blob/master/links/projects.md): [TrumpBot](https://github.com/SmirnovAlexander/chatbot), [Meme App](https://github.com/SmirnovAlexander/MemDer), [Terminal Tetris](https://github.com/SmirnovAlexander/Tetris), [Siamese Neural Networks](https://github.com/SmirnovAlexander/OneShotLearningSiameseNetworks), and more

[**Hackathons**](https://github.com/SmirnovAlexander/CV/blob/master/links/hackathons.md): Participant in 6+ hackathons, including multiple top 3 awards

[**Online Courses**](https://github.com/SmirnovAlexander/CV/blob/master/links/courses.md)**:** Statistics, Supervised / Unsupervised Learning, Sequence Models, and more

| **SKILLS** |
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**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