

# Alexander Smirnov

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## EDUCATION

### Moscow Institute of Physics and Technology

*Master of Science, Artificial Intelligence*

**Moscow, Russia**

*Expected Graduation Date: Jun 2023*

### Saint Petersburg State University

*Bachelor of Science, Computer Science*

**Saint Petersburg, Russia**

*2021*

- Degree Thesis: *A hybrid approach for news recommender system*
- Course Thesis: *Core sample images segmentation*

### Physics and Mathematics Lyceum No. 239

*Secondary Education*

**Saint Petersburg, Russia**

*2017*

## WORK EXPERIENCE

### Ten Square Games

*Data Scientist*

**Remote**

*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

*Machine Learning Engineer*

**Saint Petersburg, Russia**

*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

*Machine Learning Engineer (Intern)*

**Saint Petersburg, Russia**

*Sep 2019 - Dec 2019*

- Applied segmentation algorithms to 10k core sample images in order to predict core properties by highlighting core types, carbonate, ruin, and oil saturation zones
- Partnered with project client by conducting stakeholder interview and understanding business needs to align on project roadmap and requirements

### Belkasoft

*Machine Learning Engineer (Intern)*

**Saint Petersburg, Russia**

*Jul 2019 - Aug 2019*

- Spearheaded product features by training models that identified NSFW images
- Led data augmentation by writing custom scripts 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 (BERT, GPT, word2vec, transformers, nltk, gensim), Deep Learning (LSTM, DCGAN, ResNet, DQN), Machine Learning (trees, boosting, clustering), Python (PyTorch, surprise, optuna, wandb, flask), SQL (MySQL, MongoDB, PostgreSQL, Vertica), Linux (arch, i3, vim, zsh), C++, C#, Java