



Alexander Smirnov

- May 21, 1999
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Languages

- Russian
- English

Working Experience

- 05.2021 – now **Data Scientist** Ten Square Games
Researching & implementing in-game items recommendations.
Churn prediction.
`python` `recommender systems` `mlflow` `A/B test`
- 08.2020 – 04.2021 **Machine Learning Engineer** IT Service, startup
Researching, evaluating and ensembling different approaches for building news & videos recommender systems.
Extracting training data from logs. Inventing new logs to collect.
Solving problems such as cold start, data sparsity, instant users' actions influence on further recommendations.
Deploying solution to production using microservice architecture.
`python` `recommender systems` `matrix factorization`
`microservices` `high load` `clickhouse` `redis` `S3` `mysql`
`mongodb` `flask` `docker` `gitlab CI` `k8s`

Internships

- 09.2019 – 12.2019 **Machine Learning Intern** JetBrains
Predicting core properties (type, carbonate, ruin, saturation) using core samples images.
Deep learning was used to detect properties; zones were highlighted using segmentation algorithms.
`research` `python` `tensorflow` `CV` `segmentation`
- 07.2019 – 08.2019 **Machine Learning Intern** Belkasoft
Collecting data and train algorithm to find pictures that contain circles and arrows on them.
`python` `tensorflow` `CV` `object detection` `C#`






Education

Study

- 2021 – now **Master's degree** Moscow Institute of Physics and Technology
Artificial Intelligence
- 2017 – 2021 **Bachelor's degree** Saint Petersburg State University
Computer Software Engineering
Bachelor's thesis Department of Information and Analytical Systems
A hybrid approach for news recommender system using optimization methods
Coursework thesis Department of Information and Analytical Systems
Automatic core samples classification
- 2014 – 2017 **Secondary education** Physics and Mathematics Lyceum No. 239
Best Physics and Mathematics Lyceum in Russia

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Skills

	Linux	<div><div></div><div></div><div></div><div></div></div>
	▸ arch, i3, vim, zsh	
	Python	<div><div></div><div></div><div></div><div></div></div>
	▸ numpy, scikit-learn, matplotlib	
	▸ pycaret, optuna	
	▸ nltk, gensim, surprise	
	▸ pytorch	
	▸ flask, fastAPI	
	Machine Learning	<div><div></div><div></div><div></div><div></div></div>
	▸ EDA	
	▸ supervised learning	
	▸ unsupervised learning	
	▸ recommender systems	
	▸ A/B testing	
	Development	<div><div></div><div></div><div></div><div></div></div>
	▸ gitlab, CI / CD	
	▸ k8s, microservices	
	DBMS	<div><div></div><div></div><div></div><div></div></div>
	▸ MySQL, Oracle, PostgreSQL	
	▸ MongoDB, ClickHouse, Vertica	
	▸ Redis, Amazon S3	

Education

Online courses

2021 – now	Sequence Models NLP, LSTM, GRU, RNN, attention models	Coursera
2021 – now	Stats for Data Analysis A/B testing, correlation and dependence, statistical hypothesis testing, statistics	Coursera
2021	Unsupervised Learning Clustering, matrix factorization, topic modelling, outliers searching and visualizations	Coursera
2021	Supervised Learning Supervised learning models: linear models, decision trees, models composition	Coursera
2020	Web Development for Beginners Basics of web development	Stepik
2019	Mathematics and Python Mathematics and python libraries applied in data analysis	Coursera
2019	Introduction to TensorFlow Examples of how to work with TensorFlow library	Coursera

Offline courses

2021	Forum on Mathematics and AI 5-day intensive forum filled with lectures on sota AI researches	MIPT
2016	Student STAR Program-Russia CoE track Project management course	EMC
2016	Samsung IT School Android development course	Samsung

Books

2021	The Lean Startup Successful startup launching guideline	Eric Ries
2020	Linux Fundamentals Introduction to using Linux from the command line	Paul Cobbaut

Projects

2020	Git Server My own private git server hosted on raspberry pi
2020	Tetris Terminal tetris game for *nix operating system
2019	Emoji Communicator Visualizing text with emoji letters
2019	Siamese Neural Networks Implementation of siamese network for one-shot learning task
2019	Classifying Browser Extension Browser extension that allows you to classify site if it is suitable for children to watch
2019	Android Meme Application An android app that show memes depending on your preferences
2018	Custom File Manager Illustrates a bunch of programming patterns and optimization techniques

Achievements

2021	Winner Artificial Intelligence track	I'm Professional
2021	7.5 Academic Training	IELTS
2019	2nd place Program that help users to express themselves in chats	PhotoLab PhotoHack
2018	Finals Entertaining app	VK Hackathon

Hackathons

2021	MIPT Forum Hackaton Classifying quiz questions if they written by professionals or not	Moscow
2020	TrudHack 2 CV parser	Saint Petersburg
2019	Tender Hack.Spb Search algorithm	Saint Petersburg
2019	PhotoLab PhotoHack Program that help users to express themselves in chats	Veliky Novgorod
2019	QuantNet Trading algorithm	Saint Petersburg
2019	SPbU GameJam 2019 Game	Saint Petersburg
2018	VK Hackathon Entertaining app	Saint Petersburg