

Alexander Smirnov

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Russia

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SmirnovAlexander

Languages

Russian

English



Working Experience

05.2021 – Data Scientist Ten Square Games

now Researching & implementing in-game items recommendations.

3 months Churn prediction.

python recommender systems mlflow A/B test

08.2020 – Machine Learning Engineer IT Service, startup
04.2021 Researching, evaluating and ensembling different approaches for

8 months builiding news & videos recommender systems.

Extracting training data from logs. Inventing new logs to collect. Solving probles such as cold start, data sparcity, 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 – Machine Learning Intern

12.2019 Predicting core properties (type, carbonate, ruin, saturation) using

4 months core samples images.

Deep learning was used to detect properties; zones were highlighted

using segmentation algorithms.

research python tensorflow CV segmentation

07.2019 – Machine Learning Intern

08.2019 — Belkasoft
Collecting data and train algorithm to find pictures that contain cir-

2 months cles 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

Alexander Smirnov

Skills -

Linux

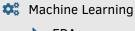


arch, i3, vim, zsh

Python



- numpy, scikit-learn, matplotlib
- pycaret, optuna
- nltk, gensim, surprise
- pytorch
- flask, fastAPI





- unsupervised learning
- recommender systems
- A/B testing





- gitlab, CI / CD
- k8s, microservices





- 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 hypoth ing, statistics	Coursera esis test-
2021	Unsupervised Learning Clustering, matrix factorization, topic modelling, outliers s and visualizations	Coursera earching
2021	Supervised Learning Supervised learning models: linear models, decision trees composition	Coursera , models
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	
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

Alexander Smirnov 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 tech-
	niques

Achievements

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

Hackathons

2021	MIPT Forum Hackaton Classifying quiz questions if they written by professi	Moscow onals or not
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 ch	Veliky Novgorod nats
2019	QuantNet Trading algorithm	Saint Petersburg
2019	SPbU GameJam 2019 Game	Saint Petersburg
2018	VK Hackathon Entertaining app	Saint Petersburg