

#### **Alexander Smirnov**

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SmirnovAlexander

## Languages

Russian

**English** 



#### **Working Experience**

05.2021 – Data Scientist

now Researching & implementing in-game items recommendations.

6 months Churn prediction.

python recommender systems mlflow A/B test

08.2020 – Machine Learning Engineer yarus.ru, startup

8 months building news & videos recommender systems.

Extracting training data from logs. Inventing new logs to collect. Solving probles such as cold start, data sparcity, instant users'

Researching, evaluating and ensembling different approaches for

Ten Square Games

actions influence on further recommendations.

 $\label{lem:decomposition} \mbox{Deploying solution to production using microservice architecture}.$ 

python recommender systems matrix factorization microservices high load clickhouse redis S3 mySQL

mongoDB flask docker gitlab CI k8s

### **Internships**

04.2021

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

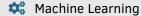


arch, i3, vim, zsh

Python



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





- RNNs, attention, transformer
- regression, trees, ensembles
- clustering,
- dimensionality reduction
- recommender systems,

A/B testing

#### **Education**

#### Online courses

2021 – now	Sequence Models RNN, LSTM, GRU, attention mechanism	Coursera
2021 – now	<b>Stats for Data Analysis</b> A/B testing, correlation and dependence, statistical hypothering, statistics	Coursera esis test-
2021	<b>Unsupervised Learning</b> Clustering, matrix factorization, topic modelling, outliers so and visualizations	Coursera earching
2021	<b>Supervised Learning</b> Linear models, decision trees, ensembles, overfitting, evalu	Coursera ation
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	MIPT
	5-day intensive forum filled with lectures on sot	a 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	Eric Ries
	Successful startup launching guideline	
2020	Linux Fundamentals	Paul Cobbaut
	Introduction to using Linux from the command line	

# Alexander Smirnov Projects

2021	TrumpBot
	Chatbot that pretends to be Donald Trump
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**

2021	<b>Winner</b> Artificial Intelligence track	I'm Professional
2021	<b>7.5</b> Academic Training	IELTS
2019	<b>2nd place</b> Program that help users to expre	PhotoLab PhotoHack ess themselves in chats
2018	<b>Finals</b> Entertaining app	VK Hackathon
2017	<b>Winner</b> Russian math olympiad	Intercollegiate Math Competition

## **Hackathons**

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