

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

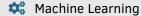


arch, i3, vim, zsh

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	Stats for Data Analysis A/B testing, correlation and dependence, statistical hypothering, statistics	Coursera esis test-
2021	Unsupervised Learning Clustering, matrix factorization, topic modelling, outliers so and visualizations	Coursera earching
2021	Supervised Learning 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

TrumpBot Chatbot that pretends to be Donald Trump
Git Server My own private git server hosted on raspberry pi
Tetris Terminal tetris game for *nix operating system
Emoji Communicator Visualizing text with emoji letters
Siamese Neural Networks Implementation of siamese network for one-shot learning task
Classifying Browser Extension Browser extension that allows you to classify site if it is suitable for children to watch
Android Meme Application An android app that show memes depending on your preferences
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 the	PhotoLab PhotoHack emselves in chats
2018	Finals Entertaining app	VK Hackathon

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	Tender Hack.Spb Search algorithm	Saint Petersburg
2019	PhotoLab PhotoHack Program that help users to express themselves in ch	Veliky Novgorod ats
2019	QuantNet Trading algorithm	Saint Petersburg
2019	SPbU GameJam 2019 Game	Saint Petersburg
2018	VK Hackathon Entertaining app	Saint Petersburg