Alexander Smirnov

- May 21, 1999
- Russia
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Languages

🇷🇺 Russian	● ● ● ● ●
🇬🇧 English	● ● ● ● ○

Working Experience

05.2021 – now
4 months

Data Scientist — Ten Square Games

Researching & implementing in-game items recommendations. Churn prediction.

`python` `recommender systems` `mlflow` `A/B test`

08.2020 – 04.2021
8 months

Machine Learning Engineer — IT Service, startup

Researching, evaluating and ensembling different approaches for 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 – 12.2019
4 months

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
2 months

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   ● ● ● ●
  - ▸ arch, i3, vim, zsh
- 🐍 Python   ● ● ● ○
  - ▸ numpy, scikit-learn, matplotlib
  - ▸ pycaret, optuna
  - ▸ nltk, gensim, surprise
  - ▸ pytorch
  - ▸ flask, fastAPI
- ⚙ Machine Learning   ● ● ● ○
  - ▸ EDA
  - ▸ supervised learning
  - ▸ unsupervised learning
  - ▸ recommender systems
  - ▸ A/B testing
- </> Development   ● ● ○ ○
  - ▸ gitlab, CI / CD
  - ▸ k8s, microservices
- 🗄 DBMS   ● ● ○ ○
  - ▸ 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

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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**   I'm Professional
Artificial Intelligence track

2021   **7.5**   IELTS
Academic Training

2019   **2nd place**   PhotoLab PhotoHack
Program that help users to express themselves in chats

2018   **Finals**   VK Hackathon
Entertaining app

Hackathons

2021   **MIPT Forum Hackaton**   Moscow
Classifying quiz questions if they written by professionals or not

2020   **TrudHack 2**   Saint Petersburg
CV parser

2019   **Tender Hack.Spb**   Saint Petersburg
Search algorithm

2019   **PhotoLab PhotoHack**   Veliky Novgorod
Program that help users to express themselves in chats

2019   **QuantNet**   Saint Petersburg
Trading algorithm

2019   **SPbU GameJam 2019**   Saint Petersburg
Game

2018   **VK Hackathon**   Saint Petersburg
Entertaining app