

Aleksandr Avdiushenko

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I have diverse experience in science, industry and organization of educational projects. I love machine learning and working with people.

Work experience

2019 — present	Saint Petersburg State University, Department of Mathematics and Computer Science, Associate Professor and head of the educational program in «Data Science» In 2019 I launched an educational bachelor's program «Data Science», which immediately became popular among the best applicants in Russia. In 2020, I created from scratch International Scientific and Methodological Center of St. Petersburg State University (Russian Ministry of Education grant). I created and teach one year machine learning course with modern ML approaches. The average student's evaluation of teaching is 4,78 out of 5,0
2015 — 2018	Yandex, data scientist I increased the accuracy of the organizations database twice by 2% and 3% (the main goal of the team). I automated and optimized data update processes in call centers and in Yandex.Toloka. I worked in a group of six data scientists, we developed soft in Java, SQL, Python, a little bit of C++
2013 — present	Yandex, CS center/Yandex Data School, Academic Programs Manager In 2013 I launched a branch Yandex Data School in Novosibirsk. In 2017 in cooperation with JetBrains, I expanded the Yandex Data School branch to Computer science center. In 2019 I organized open Machine Learning training sessions for Kaggle competition participants.
2009 — 2015	Institute of Computational Technologies SB RAS, graduate student, researcher I developed a new numerical model that takes into account the change in the geometry of the flow path over time. I accelerated calculations by the Fortran language software package available in the laboratory by 16 times (MPI per block), and another 7 times (OpenMP flows inside the block). I made PhD thesis (in russian).
2008 — 2014	Specialized Educational and Scientific Center NSU, math teacher
2006 — 2017	organizer and member of the Jury of Mathematical Olympiads: All-Russian, All-Siberian, Tournament of cities
2010 — 2013	math club «Sovenok», organizer and teacher

Skills

- Python (numpy, scikit-learn, matplotlib)
- Java (spring, hibernate, immutables)
- linux, git, ipython notebook
- SQL, MapReduce, MPI, OpenMP
- machine learning (catboost, neural nets)
- algorithms, data structures
- math: analysis, numerical methods
- Russian: native, English: intermediate, French: débutant

Education

2013 — 2016	Yandex Data School	machine learning, programming	graduate
2009 — 2014	Graduate School of ICT SB RAS	math modeling, numerical methods	PhD
2003 — 2009	NSU, Department of Mechanics and Mathematics	math	master

Online courses

2017	Coursera, University of Washington	Programming Languages, parts A, B, C	certificate
2019	Coursera, HSE University	How to Win a Data Science Competition: Learn from Top Kagglers	certificate

Out of work

I like to spend time with my wife and daughter, and I have the Insagram