

# Aleksandr Avdiushenko

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Project Manager, Teacher and Data Scientist with 7+ years of experience in data science, analysis, and educational programs for the IT industry.

## Work experience

- 2022 — present: Head of ML programs, [Yandex](#)
  - Organized one-year Machine Learning with modern approaches for 350+ participants in 2022-23
  - Enrolled 100+ talented students in three partner master's programs of Yandex
- 2019 — present: Associate Professor and Head of the educational program in «Data Science», [Saint Petersburg State University](#), [Department of Mathematics and Computer Science](#)
  - Launched new educational program «[Data Science](#)» in 2019, which immediately became popular among the best applicants in Russia, include winners of the International Olympiad in Mathematics (IMO)
  - 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
  - Developed with the group of students Python package for automatization of ML homeworks [mlpractice](#)
  - Created from scratch [International Scientific and Methodological Center of St. Petersburg State University](#) (Russian Ministry of Education grant) in 2020
- 2013 — 2022: Academic Programs Manager, [Yandex Data School](#)
  - Launched a branch of [Yandex Data School](#) in Novosibirsk in 2013
  - Expanded the Yandex Data School branch in cooperation with JetBrains to [Computer science center](#) in 2017
  - Organized open [Machine Learning training sessions](#) for Kaggle competition participants in 2019
- 2015 — 2018: Data Scientist, [Yandex](#)
  - Increased the accuracy of the organizations database twice by 2% and 3% (the main goal of the team)
  - Automated and optimized data update processes in call centers and in [Yandex.Toloka](#)
  - Worked in a group of six data scientists. We developed soft in Java, SQL, Python, a little bit of C++
- 2009 — 2015: Researcher, [Institute of Computational Technologies SB RAS](#)
  - Developed a new numerical model that takes into account the change in the geometry of the flow path over time
  - 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)
  - Made [PhD thesis \(in russian\)](#)

## Skills

- Python: numpy, pandas, scikit-learn
- Machine Learning: catboost, neural nets
- Math: analysis, numerical methods
- Algorithms and data structures
- linux, git, jupyter notebook
- Java (spring, hibernate), SQL
- MapReduce, MPI, OpenMP
- Russian: native, English: intermediate, French: beginner

## Education

Master degree in Math	<a href="#">Novosibirsk State University</a>	2009
PhD in Math modeling	<a href="#">Graduate School of ICT SB RAS</a>	2014
<a href="#">Graduate</a> , Machine learning	<a href="#">Yandex Data School</a>	2016

## Professional development

Programming Languages, parts A, B, C	University of Washington	<a href="#">Coursera certificate</a>	2017
How to Win a Data Science Competition	HSE University	<a href="#">Coursera certificate</a>	2019