



Andrey Filin

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Moscow, Russia

Summary

Since early childhood, I have been interested in mathematics and programming. My studies at the Moscow School of Programming and the Winter Pushchino School sparked my interest in Data Science. After engaging with specialists from MIPT, I enrolled in SAMCS, where I became seriously interested in data analysis, especially in the field of computer vision. During my studies at MIPT, I completed the Deep Learning School course. I am now continuing my studies at Skoltech. Enhancing my knowledge and striving to apply it to solve practical problems and improving personal skills. In my free time, I enjoy billiards, social deduction games, sports and driving.

Skills

- **Analytical toolkit** – proficient user of standard data analysis tools, such SQL, pandas, tableau, matplotlib, seaborn, scikit learn
- **Machine learning** – knowledge and practical experience of classic ML methods
- **Python** – knowledge of general concepts and experience in data analysis and web-app development
- **Go** – YSDA-course excellent completion
- **Deep Learning** – knowledge of main principles and full pipeline NN-learning practice with Pytorch
- **Computer vision + Generative** – experience with solving classical tasks, such as segmentation, autoencoder, VAE, detection, recognition
- **Unity, Unreal** – experience with creating games, 2d, 3d, using these engines
- **Mathematics** – Calculus, Linear algebra, Complex analysis, DE, Functional analysis, Probability Theory, Statistics excellent completion

Languages

Russian – native
English – B2

Education

Higher School of Economics

2024–present

<https://www.hse.ru/ma/sltheory/>

Master's Program Applied Mathematics and Informatics
Math of Machine Learning Program

Moscow Institute of Physics and Technology

2020–2024

<https://old.mipt.ru/education/departments/fpmi/>

Bachelor in Applied Mathematics and Physics, SAMCS
Computer Technologies Program
Institute of Economic forecasting

Moscow Programming School

2016–2020

<https://informatics.ru/>

Additional education in computer science
Olympiad department

Results

- Deep learning school Olympiad Prize
- IW-2024 Winner
- Team leader at Moscow Programming School
- Excellent Complete of Stepic Courses: Probability Theory, C++, Deep Learning School

Skolkovo Institute of Science and Technology

2024–present

<https://new.skoltech.ru/en/programs/msc-data-sciences>

Master's Program in Mathematics and Computer Science
Data Science Program

Experience

Tinkoff bank, Analyst, 01.2023–05.2023

During my internship at Tinkoff, I was responsible for automating the operators' support chat. I analyzed their performance data, created interactive reports, and worked on ranking. I also handled the analytics for the data displayed in the application. I implemented automatic log processing, compared logs with real data, and generated interactive reports based on this data. Additionally, I wrote scripts in Python, including one that daily generated Excel invoices for sending based on data from the database

MIPT, Teaching assistant, 9/2022–5/2023

During my studies at MIPT, I assisted with the "Algorithms and Data Structures" course. As part of my assistantship, I checked homework assignments, answered questions in the chat, and filled out grade sheets. This experience allowed me to try myself at teaching and enhance knowledge of C++.

MIPT, Studying projects

During my studies at MIPT, I participated in many academic projects. Here are the ones I find most relevant to my experience:

- **Face Recognition Project in Deep Learning School:** In this project, I studied the components of a face recognition pipeline, implemented its elements, and compared results using different loss functions.
- **Machine Learning Projects:** These projects involved implementing various model architectures and training them on the provided datasets.
- **Group Project in Unity:** While working on this project, I developed teamwork skills and learned to work with a 3D engine for modeling by creating a 3D game.
- **Carsharing forecasting** – during my research, I worked on forecasting carsharing services, identifying factors that influence demand and modeling how changes in these factors affect key sales metrics.