

Sergey Petrakov

DATA SCIENTIST

Details

+7 903 265 78 79

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Links

<https://github.com/SergeyPetrakov>

[LinkedIn](#)

[VK](#)

Skills

Python (numpy, pandas, pytorch, matplotlib, seaborn, sklearn, xgboost, keras, gensim, nltk)

R (dplyr, ggplot2, econometrics (xts, lubridate, urca, quantmode))

SQL (Data processing)
AnyLogic (Simulation modeling)

Microsoft Office
Gretl (Econometrics)

Languages

English (Pre-Advanced)

Deutsch (B1), Français (A1)

Hobbies

Music: Guitar

Art: Drawing (Art school, 6yr.)

Sport: Football, Swimming,

Boxing, Ping pong

Sources of knowledge

University

Stepik

Coursera

Data camp

Python tutor

[Link for my projects](#)

Reference available upon request

Working Experience

Machine Learning Research Assistant (Python), Stanford GSB - Venture Capital Initiative

October 2020 – February 2021

- Improved venture capital financing contracts database using ML and NLP
- Pulled the variables from the documents, found errors in the existing coding
- Increased model's f1 score and accuracy from 97% to 98% using Bayesian optimization
- Solved classification tasks and checked stability (standard ML, TfIDF, Word2Vec)



Tutor on Mathematical Course on Economics Faculty Lomonosov Moscow State University

September 2020 – May 2021

- Carrying out tests
- Checking and evaluating works and answering students' questions.



Internship at the Finance National Key Accounts Department, Coca-Cola HBC Russia, Moscow

July 2019 – August 2019

- Improved the structure and usability of the sampling ordering tool
- Created the generation of automatic P&L statements
- Contributed to the setting up of the new variance analysis tool
- Made plan-fact analysis presentations
- Determined and explained the causes for variances.



Investment assessment course teacher for schoolchildren in Economics & Mathematics School at Lomonosov Moscow State University Faculty of Economics

October 2017 – April 2018

Education

Master of Science in Mathematics and Computer Science, Data Science, Skoltech

September 2021 – Now

From January 2022 doing research in StatML Skoltech Lab.
Topic: "Uncertainty estimation of transformer models in regression task"



Bachelor,

Lomonosov Moscow State University, Faculty of Economics

July 2017 – July 2021

Student of the first group, GPA = 4.97 (max 5)

Bachelor thesis: «Extensions of multifactor return models for Russian stock market»



Courses

September 2019 – February 2020

Program in Quantitative Analysis, Center of Mathematical Finance

Top 19 out of 45

Hackathons, Competitions & Case Championships

MIT Global Startup Labs 2022 (Moscow, Skoltech) (winner),

Sber Hackathon (top 3), DS Hackaton BCG GAMMA (finalist),

OK ML Cup (top 5 student on course),

Sibur Challenge 2020 (top 6 student on course)

Alfa Battle 2.0 (top 5 student on course)

Econometrics Universiade 2020 (top 33), Prohack 2020 (678 from 872)

«Surpass dreams», Troika dialog, Skolkovo, February 2020 (finalist, top 2)