Pesnya Polina

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Education

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY

Dolgoprudny, Russia, 2018-2022 Applied Mathematics and Physics

GPA: 4.33/5.00 **English:** B1

Department of Control and Applied Mathematics

Basic department: Yandex data analysis

Skills

· Programming skills: Python, C/C++, SQL, TeX

- Development tools: PyCharm, Jupyter Notebook, CLion, Google Colab, git, LaTeX, Microsoft SQL server
- · Data workflow: Pandas, NumPy, MatPlotLib, Seaborn, Scikit-Learn

Experience

- · Contributing to the creation of a machine learning tutorial (SDA): illustration, layout, markdown
- · Assistant at the second stage of the Olympiad for schoolchildren of Phystech

Relevant Courses

- · Introduction to machine learning, Yandex School of Data Analysis (Spring 2021)
- · Methods of modern and applied statistics, Yandex School of Data Analysis (Spring 2021)
- · Python course, Yandex School of Data Analysis (Spring 2021)
- · Database and SQL, semester course at MIPT (Autumn 2019)

Projects

- · Yandex School of Data Analysis (SDA):
 - o **Python course:** python interpreter in python, graph of calculations in the map-reduce paradigm, asynchronous telegram bot: cinemabot
 - Methods of modern and applied statistics: sample normality testing, variance analysis, multiple choice hypothesis testing
 - o **Introduction to machine learning:** lab work with competition on Kaggle: detection of diabetes within 5 years according to a preliminary study
- · Writing queries, designing DBMS, creating tables, triggers, views, managing transactions and access
- Game "Akinator" based on a binary tree (C/C++ language).
- Studying the article "Loss Surfaces, Mode Connectivity, and Fast Ensembling of DNNs" and the article "Snapshot Ensembles: Train 1, Get M for Free"
- · Optimization course project on Automatic Music Transcription

Awards

- · Abramov scholar for high average score (2019-2021)
- · Winner of First-level Olympiad in Physics «Phystech» (2018)
- · Prizewinner of MIPT «Phystech» Mathematics Olympiad (2018), Lomonosov Mathematics and Physics Olympiad (2018), Rosatom Mathematics and Physics Olimpiad (2018)
- Prizewinner of the regional stage of the All-Russian Olympiad of schoolchildren in mathematics physics (2017)