Koniushenko Iulia

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Education

Moscow Institute of Physics and Technology Dolgoprudny, Russia
Applied Mathematics and Physics 2018–2022
GPA: 4.62/5.00
English: B2-C1
Department of Control and Applied Mathematics
Basic department: Yandex data analysis
2019–2022

Skills

- **Programming skills:** Python, SQL, C/C++, TeX/LaTeX
- **Data workflow:** Scikit-Learn, Pandas, NumPy, MatPlotLib, Seaborn
- **Development tools:** PyCharm, CLion, Jupyter Notebook, Google Colab, git
- **Deep learning:** pytorch, tensorflow

Experience

- Participation in the creation of a textbook on machine learning, SDA
  Illustration, proofreading, layout, markdown
- Participation in the creation of a textbook on computer vision, SDA
  Visualization, Illustration, proofreading, layout, markdown
- ML-engineer in the team of a startup that develops educational tracks for Olympiad programming schools
- Teacher-assistant at the MIPT Olympiad schools (about 7 educational projects)

Relevant Courses

- Introduction to machine learning, Yandex School of Data Analysis Spring 2021
- Python course, Yandex School of Data Analysis Spring 2021
- Methods of modern and applied statistics, Yandex School of Data Analysis Spring 2021
- Database and SQL, semester course at MIPT Autumn 2019
- Open data science (ML, DL) Spring 2020
- Deep Learning School advanced level 1 sem, MIPT Autumn 2020
- White and Yellow belts C++, MIPT & Yandex Spring 2019

Projects

- Yandex School of Data Analysis (SHAD)
  - Python course: writing a python interpreter. Graph of calculations in the mapreduce paradigm. Asynchronous telegram bot: cinemabot
  - Introduction to machine learning: lab work with competition on kaggle, such as predicting of the match result in Dota2. Determination of the detection of diabetes within within 5 years according to a preliminary study.
  - Methods of modern and applied statistics: sample normality testing, variance analysis, multiple choice hypothesis testing
- Writing neural networks for regression, classification, and detection tasks. Working with StyleGAN and style transfer.
- Writing queries, designing DBMS, creating tables, triggers, views, managing transactions and access.
- Writing your own programming language, differentiator and game "Akinator" based on a binary tree (C/C++ language).

Awards

Participation in different competitions, hackathons and Olympiads at high school or university:

- 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)
- Winner of the regional stage of the All-Russian Olympiad of schoolchildren in mathematics and physics (2017, 2018)
- Best teacher-Assistant in Physics at the MIPT Olympiad Schools (2019, 2020)