Aleksandr Kurylev

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adkurylev

Education

National Research University Higher School of Economics — **Moscow, Russia**
Bachelor of Software Engineering, Faculty of Computer Science — Sep 2018 – Jun 2022
Thesis: Bitcoin Transactions Untangling

Experience

Programming Teaching Assistant — **Moscow, Russia**
Higher School of Economics — Sep 2019 – Mar 2022
- Creating and testing individual C# programming hometasks, educational materials, programming theoretical knowledge assignments
- Conducting lectures, seminars and final exams

Algorithms and Data Structures Teaching Assistant — **Moscow, Russia**
Higher School of Economics — Sep 2020 – Dec 2020
- Creating individual hometasks
- Evaluating correctness and optimality of the student's algorithms
- Conducting additional seminars

Informatics Teacher — **Moscow, Russia**
Schoolchildren Academy Higher School of Economics — Jul 2020 – Sep 2020
- Creating educational materials on graph theory, mathematical logic, set theory
- Conducting lectures and seminars

Projects

Machine Learning Course tasks — Apr 2022 – Jul 2022
github.com/adkurylev/mlcourse
- All tasks completed and checked, course passed
- Developed notebooks that participated in the special ml competitions

Bitcoin Transaction Untangling — Dec 2021 – May 2022
github.com/adkurylev/graduation_paper_code
- Developed, implemented and published a pseudopolynomial untangling algorithm by dynamic programming
- Processed 51 million Bitcoin transactions, everything was classified on 4 classes

Skills

Programming Languages: Python, Java, C++
Technologies & Frameworks: Numpy, Pandas, Scikit-learn, Seaborn, Catboost, SQL, Git, Docker, Bash
Knowledge: Algorithms and Data Structures, Machine Learning (Tabular, Computer Vision, Time Series, RecSys), Data Analysis, Data Visualization

Other

Took Computer Science courses — 2019 – 2022
- Open Machine Learning Course @ mlcourse.ai
- Machine Learning 1 @ AMI HSE
- Mathematical Methods for Data Analysis @ SE HSE
- Building Scoring Models Using Machine Learning Methods @ SE HSE
- Computer Vision @ SE HSE