Arkadii Kleimenov

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EDUCATION

Higher School of Economics National Research University — **Moscow, Russia**
Bachelor of Mathematics — *Expected Graduation, Jun 2027*
GPA: 8.27/10

Moscow State Institute — **Moscow, Russia**
Introduction to Blockchain and Distributed Finance — *Sep-Dec 2024*

Physics and Mathematics Lyceum of MEPhI — **Moscow, Russia**
with advanced study of physics and mathematics — *Graduated, Sep 2019 - Jun 2023*
GPA: 4.6/5.0

WORK EXPERIENCE

Stakewolle
Financial Analyst — *Sep 2023 – Nov 2024*
Analyzed financial news and developed predictive models for forecasting coin sentiment using language models. Conducted detailed analyses of cryptocurrency dynamics and prepared reports using various financial indicators. Worked extensively with SQL to analyze user activity following advertising campaigns.

PROJECTS

Clebsch–Gordan Decomposition Formula for sl(2) Representations — *June 2025*
- Conducted a detailed study of the Clebsch–Gordan decomposition formula for irreducible representations of the Lie algebra sl(2) as part of a coursework project at the National Research University Higher School of Economics, Faculty of Mathematics.
- Explored the classification of root systems, tensor products of sl(2) modules, weight subspace decomposition, and construction of highest weight vectors, culminating in establishing the isomorphism for the direct sum decomposition.

DCA Optimization Model — *March 2025*
- Developed a script to calculate cumulative returns from investing in a Japanese index using a Dollar-Cost Averaging (DCA) strategy.
- Proposed and implemented 3 alternative approaches to improve cumulative returns while maintaining the core DCA principles.

Steiner Problem Coursework — *June 2024*
- Conducted a comprehensive study of the Steiner Problem for a first-year bachelor's degree coursework at the National Research University Higher School of Economics, Faculty of Mathematics.
- Analyzed the Pompeiu Theorem, Torricelli Point, and specific cases involving rectangles and trapezoids, providing detailed solutions and conclusions.

Quizlet + Excel Integration — *May 2024*
- Developed a Telegram bot to streamline vocabulary learning by transferring words from Excel to Quizlet, automating the process of importing and managing study terms.
- Implemented user-friendly features allowing users to upload Excel files, mark known words, set import quantities, and retrieve updated files, enhancing study efficiency.

Seal Recognition Application — *Apr 2022*
- Contributed to training a model and developing an application for recognizing seals.

Cancer Spot Recognition — *June 2022*
- Trained a convolutional neural network to identify cancer spots on the skin.

ACHIEVEMENTS

Take the 1 place in DriveHack 2.0 hackathon — **Moscow, Russia**
Top-1. In total 150+ participants and more 50 teams — *June 2023*

- Secured victory in the DriveHack 2.0 hackathon, surpassing over 50 competing teams, with a focus on developing innovative solutions for predicting subway traffic patterns *LiveDemo : SubwayCongestionPrediction*.
- Collaborated and managed a team to design and implement a robust predictive model, demonstrating advanced problem-solving and technical expertise.

Completed a fundamental programming course from Yandex **Moscow, Russia**

Got excellent grades for the course *Sep 2020-Sep 2022*

- Graduated with distinction from a prestigious two-year program by Yandex, a leading technology company, focusing on programming fundamentals with an emphasis on Python.
- Developed and successfully delivered multiple functional projects and websites over the course of the program, applying practical coding skills to real-world challenges.
- Presented and defended projects before a review committee, demonstrating strong technical expertise and problem-solving capabilities.

Won Demonstration Exam **Moscow, Russia**

In total 2000+ participants *Apr 2022*

- Created a program to track employees and monitor the applications they were using.
- Implemented analytics to track how much time employees spend in various applications, identifying distractive apps that hinder productivity.
- Designed a warning system that alerts employees when they use non-work-related (distractive) applications.

ADDITIONAL

- Relevant Courses: Programming Methodology and Data Structures in Python and C++, Algorithms, Linear algebra and geometry, Calculus, Probability and Statistics.
- Programming languages: Python, SQL, C++, HTML/CSS + JS.