Kocharyan David

Moscow, Russia

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Education

- **Higher school of economics** — Moscow, Russia
  Bachelor of Applied Mathematics — *Sep 2020 - Jun 2024*

Projects

- **Project: Simulation of spatially distributed games** — MIPT, HSE
  Programmer-researcher — *Mar 2020 - Apr 2020*
  `python` `numpy` `matplotlib`
  - Making a generalized mathematical model of the Prisoner's dilemma
  - Implementation of the model in python.

- **Post-quantum cryptography system** — Moscow, Russia
  Programmer-researcher — *Apr 2022 - Mar 2023*
  `C`
  - Implementation of matrix algebra for GF on C
  - Implementation of McEliece system on C.
  - Realisation of Peterson-Gorenstein-Zieler and Berlekamp-Massey decoder on C.

- **Project: Audio recognition telegram bot** — HSE Career, MTS AI
  oordinator, programmer — *Feb 2023 - Mar 2023*
  `python` `PIL` `os` `librosa` `speechbrain` `opencv-python` `pytube`
  - Debug the telegram bot
  - Exceptions handing
  - Youtube video processing
  - Code synchronization

About myself

- I have developed soft skills (thanks to them, my project post-quantum cryptography system took the first place in popularity at the faculty)

- Since September 2022, I have been interested in machine learning and now I am testing myself in everything related to it

- About my plans for the future: I want to enter the The Yandex School of Data Analysis

Additional education

- Course "Introduction to LaTex" from coursera

- Course "Basics of python programming" from coursera

- Course "Machine learning 1" from Faculty of Computer Science (HSE)

Programming Skills

- **Languages**:Python
- **Technologies**: Jupyter, Pandas, Sklearn, Numpy, SciPy, PyTorch, Matplotlib
- **Knowledge**: Algorithms, Data Structures, Linear Algebra , Probability Theory and Statistics, Theory of Stochastic Processes