

GLEB KHAYKIN

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EXPERIENCE

DiviAI

San Francisco, USA

Data Scientist (Remote)

September 2021 — July 2022

- Assisted with the economic engine project that relates to data science in the development of knowledge graphs, estimation of economic indicators, and resulting predictions.
- Developed **ETL pipelines** using **PySpark**; analyzed daily investor sentiment based on financial and crypto text corpora using **NLP**; implemented the CEO **ranking algorithm** based on the people knowledge graph; developed the crypto ranking and **clusterization algorithms**.

National Research University — Higher School of Economics

Moscow, Russia

Teaching Assistant

January 2020 — December 2021

- Assisted with such courses as “**Machine Learning-I**” at the Faculty of Computer Science and “**Probability Theory & Mathematical Statistics**” and “Financial Accounting & Reporting” at the Faculty of Economic Sciences.
- Checked the homework of about **30 students**, proctored midterms and exams, assisted in preparing lecture materials, and provided consultations.

PROJECTS

Deep Learning for Audio

PyTorch Implementation of Speech Analysis and Speech Synthesis Models

- Implemented **QuartzNet** for **ASR** in “production” repository; **Streaming CRNN** for **KWS**, **FastSpeech** as an acoustic model and **HiFi-GAN** as a vocoder for **TTS** in separate “raw” repositories (WIP).

EDUCATION

National Research University — Higher School of Economics

Moscow, Russia

*Bachelor's degree with Honors in **Economics**, minor in Data Science*

September 2018 — July 2022

- GPA: **8.74/10** or **4.8/5**.
- Coursework: Calculus, Linear Algebra, Probability Theory & Mathematical Statistics, Stochastic Processes, Differential & Difference Equations, Econometrics, Machine Learning-I/II, Large Scale Machine Learning, Deep Learning, Deep Learning for Audio Processing, Reinforcement Learning, Data Science, C++, Python.
- **2nd-year term paper**: “**Stochastic Optimization** Methods.”
- **3rd-year term paper**: “An Application of **Deep Learning** to Algorithmic Trading for Time Series Forecasting Using **Deterministic and Metaheuristic Optimization**.”
- **Thesis**: “Stock Portfolio Selection using **Neural Network Architectures**.”

CFA Institute

Moscow, Russia

Level I Passed

February 2021

- Obtained score **above** the **90th percentile** of all candidates worldwide.

TECHNICAL SKILLS

- **Programming Languages**: Python, C++, R.
- **DL & ML**: PyTorch, HuggingFace, Scikit-learn, NumPy, Pandas, SciPy, Matplotlib, Jupyter Notebook.
- **Distributed Systems & Databases**: Hadoop, PySpark, SQL.
- **DevOps & MLOps**: Git, GitHub Actions, AWS, Terraform, Docker, DVC, MLflow, Weights & Biases.
- **Tools**: Shell, Make, VSCode, Swagger, \LaTeX , Markdown, Jira.
- **Languages**: English (advanced), Russian (native).