Alexander Yalunin

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EDUCATION

Yandex School of Data Analysis   Moscow, Russia
Courses: Advanced C++ (Concurrency, Networking), Algorithms, Statistics, ML, RL.   *2021 – 2023*

Higher School of Economics   Moscow, Russia
Master of Applied Mathematics and Computer Science.   *2021 – 2023*

Higher School of Economics   Moscow, Russia
Bachelor of Informatics; GPA: 8.61/10.0, top 10%.   *2016 – 2020*

EXPERIENCE

Data Driven Lab   Belgrade, Serbia
Data Scientist   *May 2022 - Present*

- Building an anti-fraud solution for FBS, a trading platform with over 12 million users.
- Using Python, Catboost, PostgreSQL, Airflow.

Sber AI Lab   Moscow, Russia
Machine Learning Research Engineer   *Jul 2020 - Jan 2022*

- The main project was to identify the early signs of breast cancer on mammograms. The paper was accepted to a top-tier AI conference EMNLP: aclanthology.org/2021.findings-emnlp.15.pdf
- Conducted R&D in AI in Healthcare in tasks such as Diagnosis Prediction/Text Summarization/Text Generation/Medical Image Processing. Published 4 papers.
- Improved Diagnosis Prediction in Moscow clinics (+2.5% Hit@3).

Yandex   Moscow, Russia
Machine Learning Engineer Intern   *Jan 2020 - Jun 2020*

- Developed an article recommender systems for Yandex.Zen based on Transformer models (BERT4Rec/Behavior Sequence Transformer) and collaborative filtering (eALS/iALS/ease).
- Improved recommendations quality by 0.5%.
- Used Java, Python, Tensorflow, SQL, MapReduce (YT).

Tinkoff Bank   Moscow, Russia
Machine Learning Engineer Intern   *Oct 2019 - Dec 2019*

- Developed a recommender system prototype based on customer purchases (used DSSM/ALS models).
- Used Python, PyTorch, SQL, Hadoop, Greenplum, Apache Zeppelin.

Bounty0x   Remote
Solidity Engineer   *Jan 2018 - Jun 2019*

- Developed Smart Contracts on Solidity, integrated them into Node.js backend and React frontend.
- Used MongoDB, PostgreSQL, Express.js, Heroku, Web3, Truffle.

SKILLS

- **Programming**: Python, C++, Java, C#, Solidity, SQL, bash.
- **ML tools**: Pytorch, TensorFlow, MapReduce, Hive, Airflow, Mlflow, Pytorch Lightning, HuggingFace.
- **Other tools**: linux, git, docker, zsh, vim, flask, fastapi, protobuf, grpc, concurrency.

PUBLICATIONS

- Yalunin, Alexander, et al. *"Generating Mammography Reports from Multi-view Mammograms with BERT."* Findings of the Association for Computational Linguistics: EMNLP 2021.
- Yalunin, Alexander, Alexander Nesterov, and Dmitriy Umerenkov. *"RuBioRoBERTa: a pre-trained biomedical language model for Russian language biomedical text mining."* arXiv preprint arXiv:2204.03951, 2022.
- Yalunin, Alexander, Dmitriy Umerenkov, and Vladimir Kokh. *"Abstractive summarization of hospitalisation histories with transformer networks."* arXiv preprint arXiv:2204.02208, 2022.

Achievements

- **Programming competition Yandex Cup 2020**: 2nd place.
- **Programming competition Yandex Cup 2019**: 5th place.

Personal

Upper-intermediate English, intermediate Spanish, fluent Russian. I play chess, poker and Dota 2.