SERGEY VOLNOV

ML/DL Engineer

ABOUT

In high school, I studied algorithms and data structures a lot and even won several All-Russian and one international Olympiad in Informatics. For the last two years I have been engaged in machine learning and neural networks. Currently I am studying at the Higher School of Economics (HSE) in the program of applied Mathematics and Computer Science.

English proficiency: C1 Advanced (IELTS 6.5)

ACHIEVEMENTS

- 2nd place at the all-Russian Machine Learning Championship | 2022
- 1st place on the Digital Breakthrough (Northwest Federal District) | 2022
- 1st place at the Tochka bank hackathon | 2022
- 7th place at the hand-writing text recognition competition | 2022
- Prize-winner at Russian Olympiad in Informatics | 2021 and 2022 years
- Bronze medal at International Zhautykov Olympiad in Computer Science | 2021

CONFERENCES

- Speaker at EdCrunch International Conference (the world's biggest conference in education). Made a speech about Fora.Vision and digital technologies for physical education in schools and universities | 2022
- Judge at "Start in Innovation" Conference | 2022

CONTACTS

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COMMERCIAL EXPERIENCE

Data Scientist, Tochka bank | 2022-now

I was developing a model for customer churn rate prediction (looking for those who would go to another bank) at Tochka. The revenue for the bank from this model was about $20000/quarter.

DL Engineer, Freelance | 2022

Developed a system for furniture detection and removal in 3D room scan with subsequent holes repainting. During the work used models of 3D instance segmentation, repainting (LAMA), color mesh optimization and others.

PROJECTS

DL Engineer & Founder at Fora.Vision | 2021-now

Together with the team, we launched an online training service with computer vision technologies and real-time recognition of completed exercises. We already have several educational organizations (ITMO, Phystech-Lyceum, etc.) among our clients and more than 300 constantly training students. I was making a system for recognition and counting exercises.

Face cartoonizing | 2021

Implemented GAN-based pix2pix model and telegram bot for generation cartoonized image from faces that was found on the photo you send.

EDUCATION

- Faculty of Computer Science in HSE | 2022-now
- Deep Learning School (advanced flow) - deep learning (PyTorch) | 2021-2022
- Tinkoff ML - machine learning | 2021-2022
- Tinkoff Generation (levels B', B and A) - Algorithms and structures of data | 2019-2022
- Academy of Artificial Intelligence - deep learning (Keras) | 2020-2021

SKILLS

- Machine Learning - boostings, linear models, clustering
- Deep Learning - PyTorch, Keras frameworks
- Docker, Bash, Git, Numba
- SQL, PostgreSQL
- Often worked with numpy, matplotlib, pandas, sklearn
- Have experience in api deployment (flask, fastapi) and data parsing (asyncio, requests, selenium, bs4)
- Used C++ to solve Olympiad problems. Have a good knowledge of algorithms and data structures.