Leonid Kostyushko

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EDUCATION

Lomonosov Moscow State University　　　　　　　Faculty of Mechanics and Mathematics
Bachelor and Master of Mathematics in Computer Science　　　　　　　　　　*2017 – 2023*

EXPERIENCE

Leading Computer Vision Engineer　　　　　　　　　　　　　　　　2022 – present
Third Opinion

- Leading a team and developed a Head CT hemorrhage identification system. The result is x5 better than radiologists markup and x3 better than competitors allowing to integrate in 5 commercial clinics.
- Developed Dicom analysis modules for data validation, integrated business metrics in research pipeline, implemented custom 3D medical image segmentation network in Pytorch.
- Developed a production pipeline optimizing all modules by 40% GPU resources by Ray and Triton frameworks.

Computer Vision Researcher　　　　　　　　　　　　　　　　　　2020 – 2022
Samsung AI

- Implemented a novel approach for compression generative networks that resulted in the SOTA article at the CVPR 2023 conference. The idea behind consisted of knowledge distillation and neural architecture search brand new modules.
- Applied last research results for the current commercial projects in the mobile apps domain. With x8 memory and x5 inference time reductions for GANs.

Computer Vision Engineer　　　　　　　　　　　　　　　　　　　2018 – 2020
VisionLabs

- Developed 10 MVPs which grew into new commercial products. Pipeline consisted of web scrapping data by Requests and BeautifulSoup; training segmentation, detection and OCR Pytorch pipelines; UI implemented by Telegram bots and IOS apps by Docker and CoreML libraries.
- Created a new version of a Face Anti Spoofing classification system presented in 20 organizations and metro. The quality became x5 TPR@FPR better than last production by implementing SOTA article approaches from scratch. Data costs became 60% less by implementing synthetic data generation GAN pipeline.

PROJECTS

- Author of the study articles in the Deep Learning Telegram channel with over 5000 participants
- Competitive programming participant (ICPC Quarterfinals, Yandex Cup Finals)
- Lecturer of a university Deep Learning course for a 1 year with 20 students
- Consulting AI companies research labs and leaded over 30 tech interviews

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres)
Frameworks: Pytorch, Pytorch Lightning, FastAI
Developer Tools: Git, Linux, Docker, AWS
Libraries: Pandas, Numpy, Matplotlib, Sklearn, Ray, Triton, TensorRT, CoreML