Dmitry Barsukov

CONTACT INFORMATION	Residence: Moscow, Russia	Telegram: @riZZZhik (preferred) Email: riZZZhik@gmail.com GitHub: github.com/riZZZhik

PROFESSIONAL SUMMARY
: Experienced Machine Learning Engineer with 5+ years in AI solutions focusing on Text-to-Speech, Computer Vision, and Deep learning optimization.

RESEARCH AREAS OF INTEREST
: Machine Learning; Deep Learning Model Optimization; Computer Vision; Speech Technologies

PROGRAMMING SKILLS
: **Languages**: Python (advanced), Go (advanced), Tritonlang (average), C/C++ (average), CUDA C++ (average)
Deep Learning Frameworks: PyTorch, TensorFlow, Keras
Optimization frameworks: Torch compile, TensorRT, Tritonlang, OpenVINO, Triton Server
Observability frameworks: Prometheus, Grafana, Kibana, WandB, ClearML
Technical skills: OpenCV, Torchaudio, Docker, Kubernetes, Git, CI/CD, Observability, Linux

LANGUAGES
: Russian (native); English (advanced)

EMPLOYMENT AND EXPERIENCE

MTS AI   June 2022 - Present
Senior Machine Learning Engineer

Development of a Text-to-Speech service that surpasses leading competitors in the Russian language.
Main responsibilities: model inference optimization, deployment, and supporting business logic.
Achieved **0.12** p95 latency and **80** RPS on a single **2g.20Gb** A100 instance.
Technologies: Python, Golang, PyTorch, WandB / ClearML, Triton Server, Observability, Docker + Kubernetes, Git + CI/CD

SIRIN   March 2021 - January 2022
Middle Python Machine Learning Developer

Development of a service using computer vision for automatic opening of car barriers.
Main responsibilities: researching model architectures, finding/generating datasets, training, and deploying models.
Achieved **99%** accuracy in recognizing Russian license plates and **90%** accuracy in recognizing license plates overall with **0.5** latency on an **8**-core CPU.
Technologies: Python, PyTorch, OpenCV, Docker + Kubernetes, OpenVINO + Triton Server, Observability (Grafana, Kibana, Prometheus), Git + CI/CD

ITMO University   January 2020 - December 2020
Python Machine Learning Developer

End-to-end development of a service for building facade segmentation.
Technologies: Python, TensorFlow + Keras, OpenCV, Docker, Git

SPIIRAS   August 2018 - October 2020
Junior, then Middle Python Machine Learning developer

End-to-end development of a service for recognizing the faces of employees.
Technologies: Python, TensorFlow + Keras, RealSense DepthCamera, OpenCV,
Docker, Git

EDUCATION   **Higher School of Economics**   Moscow, Russia (Remote)
Applied Mathematics and Information Science.   September 2023 - Present

St Petersburg University Academic Gymnasium   Saint-Petersburg, Russia
Faculty of Physics and Mathematics   September 2020 - June 2023