

Dmitry Barsukov

CONTACT INFORMATION	Telegram: @riZZZhik (preferred) GitHub: github.com/riZZZhik LinkedIn: linkedin.com/in/riZZZhik Email: riZZZhik@gmail.com	Residence: Moscow, Russia Open to remote and hybrid full-time jobs
PROFESSIONAL SUMMARY	Experienced Machine Learning Engineer with 5+ years in Data Science focusing on Text-to-Speech, Computer Vision, and Deep Learning optimization.	
PROGRAMMING SKILLS	Languages: Python (advanced), Go (advanced), Tritonlang (average), C/C++ (average), CUDA C++ (average) Deep Learning Frameworks: PyTorch, TensorFlow, Keras, scikit-learn Deep Learning Architectures: Transformer, Diffusion, GAN, YOLO, Speech SOTA Optimization frameworks: TensorRT, torchcompile, Tritonlang, OpenVINO, ONNX Runtime, LiteRT (f.k.a. TensorFlow Lite) Technical skills: Triton Server, OpenCV, ffmpeg, Torchaudio, WandB, ClearML, Docker, Kubernetes, Git, CI/CD, Observability, Prometheus, Grafana, Linux	
LANGUAGES	Russian (native); English (advanced)	
EMPLOYMENT AND EXPERIENCE	MTS AI Senior Machine Learning Engineer	June 2022 - Present
	Development of a Text-to-Speech, Speech-to-Text, and ASR services that outperform leading competitors in the Russian language.	
	Responsibilities: <ul style="list-style-type: none">– Model deployment using Triton Server, Docker, Kubernetes, Python, and Golang.– Model optimization for performance and resource efficiency:<ul style="list-style-type: none">– Model architecture changes– TensorRT, tritonlang, torchcompile and OpenVINO– Model warmup, quantization, sparsity and pruning– Research, develop, train and fine-tune new model architectures.	
	Achievements: <ul style="list-style-type: none">– 0.12 p95 latency and 90 RPS for diffusion model on a single 2g.20Gb A100 instance.– Established and automated a version-controlled model deployment process using CI/CD, WandB / ClearML, and Artifactory.– The development process was established following best practices (e.g., CI/CD, code review, documentation, unit testing, changelog, semantic versioning, etc.).– Created an automated quality and performance testing in a production-like Kubernetes environment.– Implemented comprehensive observability with monitoring, logging, and alerting.	
	Technologies: Python, Golang, PyTorch, tritonlang, CUDA C++, torchcompile, TensorRT, WandB / ClearML, Triton Server, Observability, Docker + Kubernetes, Git + CI/CD	

SIRIN

March 2021 - January 2022

Senior Machine Learning Developer

Designed and built from scratch an end-to-end machine learning service for the automatic opening of car barriers using computer vision.

Achieved **99%** accuracy in recognizing Russian license plates and **90%** accuracy for all other license plates, maintaining a latency of **0.5** on a **4**-core CPU.

Technologies: Python, PyTorch, OpenCV, Docker + Kubernetes, OpenVINO + Triton Server, Observability (Grafana, Kibana, Prometheus), Git + CI/CD

ITMO University

January 2020 - December 2020

Machine Learning Developer

Designed and implemented from scratch an end-to-end service for building facade segmentation, managing everything from data collection and preprocessing to model training, evaluation, and deployment.

Technologies: Python, TensorFlow + Keras, OpenCV, Docker, Git

SPIIRAS

August 2018 - October 2020

Middle Machine Learning developer

Designed and implemented from scratch an end-to-end facial recognition service for employees, covering everything from data collection/generation and preprocessing to model training, evaluation, and deployment.

Technologies: Python, TensorFlow + Keras, RealSense DepthCamera, OpenCV, Docker, Git

EDUCATION

Higher School of Economics

Moscow, Russia (Remote)

B.S., Applied Mathematics and Information Science.

September 2023 - Present

GPA: 3.7/4.0