Dmitry Barsukov

Contact Information

Residence: Moscow, Russia

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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: TensorRT, Torch compile, ONNX Runtime, Tritonlang, OpenVINO, Triton Server
Observability frameworks: Prometheus, Grafana, Kibana, Opensearch, Jaeger, WandB, ClearML
Technical skills: OpenCV, ffmpeg, 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
Senior 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
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
Middle 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)
B.S., Applied Mathematics and Information Science. September 2023 - Present