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.
Proficient in deploying scalable AI systems with model servers like Triton and OpenVINO, and integrating frameworks such as TensorRT, ONNXRuntime, PyTorch, and TensorFlow.
Skilled in building observability systems using Grafana, Prometheus, and Kibana to ensure reliable and efficient AI service performance.

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
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 Python Machine Learning Engineer

Development of a Text-to-Speech service that outperforms top competitors in the Russian language.
Main responsibilities: model inference optimization, deployment, and supporting business logic.
Technologies: Python, 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% in recognizing any license plates.
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