

IVAN LAZUNIN

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EXPERIENCE

MLE Computer Vision

Sber.Devices

Moscow, Russia Oct 2022 — Recent

PyTorch OpenVino ONNX Transformers

Researched and developed a layout analysis model.

- Developed a pipeline and model for identifying strings based on LayoutLMv3, which improved metrics by 20%
- Optimized the model for CPU usage through quantization, resulting in a 50% increase in speed
- Quantized the segmentation model for CPU usage with a speed increase of 3x and for mobile devices with a speed increase of 40% and a 3x reduction in memory consumption

Computer Vision Intern

Sber.Robotics

Moscow, Russia Feb 2022 — Jun 2022

Python PyTorch OpenCV Lidar

Self-driving delivery robot team. Worked on computer vision and perception problems.

- Improved quality of recognition of dynamic objects on lidar data.
- Worked with camera + lidar fusion semantic segmentation model for robot navigation.

ML Engineer Intern

Yandex

Moscow, Russia Jun 2021 — Sep 2021

Python MapReduce SQL NLP

Worked in the content classification team.

- Improved data reuse in the process of classification models training
- Optimized the process of marking up web documents for content classification. Obtained by using the most relevant information of the page for crowdsourcing
- Used image and text classifiers for page markup

PROJECTS

Assessing Humor in News Headlines

Yandex, Sirius

Sirius, Sochi Apr 2021

Python PyTorch DVC Transformers BERT

- Worked on a humor recognition and generation project. Trained RuGPT on a dataset of Russian jokes.
- Automated experiment tracking with DVC and S3 registry.

Single Image Reflection Separation

Yandex, HSE, Sirius

Sirius, Sochi Nov 2019

Python PyTorch OpenCV Flask

- Implemented and trained ResNet and U-net based model and some generative architectures.
- Developed an MVP of reflection removing service with Flask.

EDUCATION

BSc. Computer Science

Russian Technological University

Sep 2019 — Now Moscow, Russia
Applied Mathematics (Data Analysis)

ACHIEVEMENTS

International Engineering Championship

«Case-In»

1st place

Sep 2020 Moscow, Russia

The predictive maintenance problem, team competition «Digital Atom»

NTI Contest: Big Data track

final round

Feb 2018 Moscow, Russia

The annual high school student team tech competition

Russian Computer Science competition

2nd place, regional round

Feb 2018 Vladimir, Russia

School Programming Olympiad

SUMMER SCHOOLS

Intensive Workshop on Reproducing SOTA

Apr 2021, Oct 2019 Sochi, Russia

Programming schools at MIPT

Aug 2018, Jan 2019 Moscow, Russia

ADDITIONAL

Skills

CV, NLP, Transformers, Quantization, OpenVino, ONNX, Git, CI/CD, Docker, C++, bash

Languages

Russian (native)
English (B2)

Hobbies

Music creation, travelling, photography