

# DANIIL SUHOI

## ML/DL Engineer and Researcher

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🔗 [github.com/isayoften](https://github.com/isayoften)

## SUMMARY

Passionate ML/DL Engineer and Researcher with a strong background in machine learning and deep learning. Eager to contribute expertise to a company dedicated to groundbreaking advancements in AI technology. Excited to apply skills and knowledge to drive innovation and contribute to cutting-edge projects in ML/DL.

## SKILLS

### Math

Advanced knowledge of mathematical analysis, linear algebra, probability theory and mathematical statistics.

### Programming

Advanced level Python, good knowledge of algorithms and data structures.

### English

Freely read scientific articles and understand technical lectures without subtitles.

### Classical ML

Experience with classical methods (KNN, SVM, logistic regression, decision trees, ensemble methods, etc.), data analysis and processing, model estimation, metrics, training and hyperparameters tuning.

### CV

Knowledge and ability to apply in practice convolutional, transformer (ViT) networks for a wide range of tasks: from classification, segmentation, detection to diffusion generation and 3D reconstruction.

### NLP

From word embeddings and RNN, to LLM, RLHF, RAG - deep understanding and practice.

### Common techniques

Transfer learning, distributed computing (DDP, FSDP), optimization (quantization, mixed precision, LoRa, gradient checkpointing, JIT compilation, ONNX, etc.), building custom architectures and training loops

### Technical stack

Python, Pytorch, Transformers, Accelerate, PEFT, TRL, Datasets, Sklearn, Sentence Transformers, Albumentations. • Numpy, Pandas, Matplotlib • SQL, Vector DB, FAISS • Git, Docker, Linux

## EDUCATION AND COURSES

### Bachelor of Applied Mathematics and Informatics

GPA

4.7 / 5

### Perm State National Research University

- [A professional development program on AI from the university.](#)
- [Deep Learning School from FPMI MIPT](#)
- [NLP course from YSDA](#)
- [NLP and CV courses from Hugging Face.](#)
- [Courses on ML, algorithms and data structures from Yandex](#)

## PROJECTS

### Article and project on predicting complications in Peritonitis using Classical ML

- [Winning places in several scientific conferences and a patent](#)

### Article and project about monocular depth estimation

- [Valued by very large developers and researchers](#)

### Article and project about deep learning optimization

- [Fine-tuning 40B model using FSDP+QLoRa with just 2x24GB GPU](#)

## ABOUT ME

- Words cannot convey the genuine interest and passion I have for this field. I spend all my free time every day studying and practicing in pursuit of perfection.
- A pleasant and charismatic person, to whom people around me are always drawn. I can find an approach to any person and easily adapt to a changing environment.