

## Safuan Iusupov

### Computer Vision & Machine Learning Engineer, 2.5 years + experience

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#### ABOUT

CV/ML Engineer with 2.5+ years of experience in research and applied projects, including **team-leading** and **end-to-end ML pipelines** from data to deployment. Specialized in **AI, computer vision, anomaly detection, and object detection, 3D computer vision**; skilled in **deep learning, classical CV, model optimization**. Experienced lecturer (MIPT & Yandex), passionate about **teaching and combining CV, DL, and LLMs** for more functional AI.

#### EXPERIENCE

01/2025 – 08/2025 | **CV/ML ENGINEER** | Freelance | *0.6 years*

- Built anomaly detection pipeline for heating map videos, achieving **1.6× faster** per-frame processing with a non-DL approach.
- Automated preprocessing & class extension for neural models, cutting fine-tuning time from **1 day to 3 hrs**.

01/2023 – 12/2024 | **CV/ML ENGINEER** | [MIPT](#), [Ekran](#) | *2 years*

- Developed Autoencoder-based anomaly detection, **+15% detection rate** on sonar data.
- Fine-tuned YOLO models & semantic segmentation pipelines, **+13.6% precision**.
- Designed clustering methods for grayscale sonar, **+2.2% accuracy**.
- Delivered **end-to-end ML pipeline**: data (CVAT), training, deployment.
- Optimized deployment: **Python** → **C++**, Dockerized pipelines.
- Article [Navigation and Hydrography \(June 2024, p.124-138\)](#), and **presented findings at multiple conferences**.

07/2023 – 07/2024 | **ASSISTANT LECTURER IN MACHINE AND DEEP LEARNING** | [Yandex](#) | *1 year*

- Delivered **seminars on core ML and CV algorithms**.
- Designed [teaching materials](#) & Python notebooks; recorded video lectures on core ML methods.
- Conducted [workshops for students](#) about NLP basics

#### SKILLS

- **Programming & ML Frameworks**: Python (PyTorch, TensorFlow, scikit-learn, OpenCV, Pandas, NumPy), YOLO, Ultralytics, C++, Nerfstudio, MATLAB
- **Computer Vision**: Image segmentation, anomaly/object detection, Structure-from-Motion (SfM), COLMAP, Synthesizing novel views, NeRF, RPCA, VGGT, 3D Gaussian Splatting
- **NLP & LLMs**: Retrieval-Augmented Generation (RAG), LLM fine-tuning, LoRA, Ollama
- **Tools & Platforms**: CVAT (data annotation), Docker, Git, Linux (terminal, Bash), YouTrack, Confluence
- **Languages**: English — B2 (IELTS)

#### PROJECTS/COMPETITIONS

- 09/2025 - 10/2025 | [Huawei 2025 Munich Tech Arena competition \(Cloud team\)](#)
- 04/2025 - 05/2025 | [RAG-Based NLP Pipeline with Evaluation and Local Voice Assistant \(POLIMI\)](#)
- 01/2025 - 02/2025 | [Optimizing the Viewing Graph - Structure from motion \(SfM\) \(POLIMI\)](#)
- 10/2024 - 01/2025 | [Recommender System Competition — Book Recommendation \(POLIMI\)](#)
- 11/2024 - 12/2024 | [Blood Cell Classification & Mars Terrain Segmentation – DL Competition \(POLIMI\)](#)
- 04/2024 - 04/2024 | [Phystech Radar Tech Challenge \(3d place\)](#)
- 04/2023 - 06/2023 | [NTI Up Great Technology Competition "Emergency Search" — Satellite No. 1](#)

#### EDUCATION

- 06/08/2024 – CURRENT Sundsvall, Sweden | [Erasmus Mundus Joint Master in Imaging program](#)
- 01/09/2020 – 30/06/2024 Moscow, Russia | **BACHELOR in INFORMATICS AND COMPUTER ENGINEERING**  
Moscow Institute of Physics and Technology (MIPT). Important courses:
  - 01/09/2022 – 30/06/2023 Moscow, Russia | [MACHINE LEARNING COURSE/MACHINE LEARNING ADVANCED](#) COURSE MIPT (Department of Applied Mathematics and Computer Science)
  - 01/09/2021 – 31/12/2021 Moscow, Russia | [COMPUTER VISION COURSE](#) MIPT