

GERMAN LEONTIEV

Saint-Petersburg, Russia (Remote)

Telegram: [@german_leontiev](#) | E-mail: mail@german-leontiev.com

Socials: [Linkedin](#) | [Github](#) | [Website](#) | [Youtube](#)

TECH SKILLS

ML | pandas, numpy, scipy, cupy, matplotlib, sklearn, xgboost

DL, CV, NLP | pytorch, tensorflow, keras, opencv, nltk, pymorphy2, transformers

Backend | python, fastapi, uvicorn, flask, SQL

MLOps | docker, git, clearml, dvc, AWS S3

COMMERCIAL EXPERIENCE

Middle Machine Learning Engineer @ MStroy

August 2022 - Now

Development of ML microservices

Python | PyTorch | OpenCV | NLTK | FastAPI | Docker

- Designed and implemented AI-powered virtual assistant "German" from scratch. Performed all stages of the project from clarifying business requirements and selecting models to designing the application architecture, writing the API and releasing the service in production. Allowing platform UI and API access **17,000+ users**.
- Developed a microservice for extracting tabular data from construction drawings, which allowed automating the processing of more than **40,000 documents**.
- Wrote my own algorithm for searching a string in documents, which improved the data processing speed by **10 times**, and then transferred it to the GPU, speeding it up by **3 times**

Junior Machine Learning Engineer @ Aviavision → iPavlov

April 2022 - July 2022

Development of autonomous vehicle environment analysis modules

Python | PyTorch | Tensorflow | Keras | TensorRT

- Trained models for segmentation and detection of objects on the road scene on **2 TB** of Audi dataset
- Converted the models to the TensorRT format, which allowed me to increase the speed of inference by **4 times** and process 30 frames per second

Training of computer vision models for drones

Python | Tensorflow | PyTorch | OpenCV | Flask | Docker

- Collected the world's largest open dataset for detecting forest fires, consisting of **57 000** frames taken under various conditions
- I trained a model for detecting forest fires and made a web interface for video processing

SCIENTIFIC EXPERIENCE

Machine Learning Biotech Researcher @ AGNI University

September 2022 - July 2023

Training models to predict the properties of materials before their synthesis

Python | PyTorch | Scikit Learn

- Described a number of approaches to work with tabular data for the synthesis of materials for a scientific article
- Developed and trained a neural network to predict the behavior of MOF at different temperatures

EDUCATION

ITMO University - Master student: "Machine Learning Engineering"

2024

Peter the Great St.Petersburg Polytechnic University - Master program: "Business Engineering"

2020

Peter the Great St.Petersburg Polytechnic University - Bachelor's degree: "Heat power engineering"

2019