Alexey Gorbatovskiy

ML Engineer

Reliable employee seeking junior+ ML Engineer NLP position. Offering excellent communication and good judgment.

• Contact

📍 Saint-Petersburg

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🔗 github.com/Myashka

• Software

Python — Good

PyTorch — Good

Pandas — Good

SciPy — Average

NumPy — Good

SQL — Average

Docker — Average

• Languages

Russian - Native — Excellent

English - C2 — Excellent

• Skills

Teamwork — Very Good

Presentation skills — Excellent

Time management — Very Good

Critical thinking — Very Good

• Work history

2022-10 – 2023-04

MLE Laboratory Assistant

NCCR ITMO University, Saint-Petersburg

- Search and compilation of a dataset for segmentation and identification tasks
- R&D to improve segmentation results
- Setting up experiments for the identification problem
- Developed time series forecasting pipeline
- Developed tools for image analysis, preprocessing and generation for high resolution image segmentation

• Education

2019-09 - Current

Bachelor of Infocommunication Technologies: Applied Programming

ITMO University - Saint-Petersburg

- GPA: 4.95/5.00
- Head of the study group

• Projects

Diploma "Development of methods for improving the quality of generative models to answer specialized questions in the field of programming"

December - May 2023

- Python QA collecting data;
- STF pipeline building;
- 8-core TPU training;
- Reward-model training;
- PPO pipeline for RLHF at CQA domain;
- Prompt searching for QA;
- Bayesian Networks for Named Entity Prediction in Programming Community Question Answering (Q2 paper);

ChatGPT Hackathon 3rd place

March 2023

- Developed personal English trainer as TG bot;
- Strong prompts development;
- Presenting;

Neural Machine Translation

June 2022

- Text preprocessing;
- Encoder-Decoder architecture;
- LSTM-encoder;
- CNN-encoder;
- Attention with LSTM encoder with GloVe embeddings;
- PE with CNN encoder;
- Tensorboard tracking;

Atati Breackout Agent Training

August 2022

- Trained Dueling deep Q-learning agent with target network;
- Replay buffer;
- Frame-buffer;
- Image preprocessing;

IV ICT Hack

May 2022

- Made data mining;

- Tested baselines;
- Created NPL models for multiclass classification;
- BERT fine-tuning;
- Hyperparameters optimization;
- Created presentation and project protection;

Applied AI Challenge   *May 2022*
- Time series forcasting;
- Traditional time series analysis;
- Autoregression CatBoost model;
- Presentation and defense of research;

Convolutional VAE for CIFAR10 *August 2022*
- Convolutional VAE implementation;
- Manifold visualization;

Acrobot Agent Training   *August 2022*
- Trained A2C agent;
- Using 2 different models to actor and critic;

Poetry Generation   *June 2021*
- Text preprocessing;
- Onegin and Shakespeare based seq2seq models;
- LSTM encoder-decoder model;

SVM classification January *2021*
- SVM implementation;
- Sklearn pipeline;
- Hyperparameters experiments;
- Beautiful visualization;

Fake news Detection – student project   *March – June 2021*
- NLP model training for binary classification;
- Image2Text recognition;

• Certifications

2022-09	School at 11th International Young Scientists Conference in Computational Science
2022-08	Open Machine Learning advanced course by MIPT (self-studied)
2022-02	Open Machine Learning base course by MIPT (self-studied)
2022-07	Algorithms by CSC
2022-09	Basics of statistics by Bioinformatics Institute
2021-07	Neural Networks and Deep learning by DeepLearning.AI
2020-04	Image Processing by HSE
2022-08	Interactive SQL simulator
2021-08	OOP and design patterns in Python by Mail.ru and MIPT
2021-07	Diving into Python by Mail.ru and MIPT
2021-07	Python programming by Bioinformatics Institute
2022-06	Probability theory by CSC
2021-08	Mathematics and Python for DA by Yandex and MIPT

• Interests

Ex-leader of basketball team
Philosophy