Alexey Gorbatovskiy

ML Engineer

Reliable employee seeking Research ML Engineer NLP position. Looking forward interesting research experience, publication of articles and work in an interesting team.

• 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 – C1
●●●●●
Excellent

• Skills

Teamwork
●●●●○
Very Good

Presentation skills
●●●●●
Excellent

Time management
●●●●○
Very Good

Critical thinking
●●●●○
Very Good

• Work history

2023-07 – 2023-08

NLP Intern at SRC

Saint-Petersburg Research Center (SRC)
- RLHF Llama 7B training
- Retrieval Reward Model training
- Pipeline setup

2023-06 – Current

ML Engineer at Startup group

Saint-Petersburg, NDA, part time

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

2023-09 – Current

Master of Deep learning and generative artificial intelligence

ITMO University - Saint-Petersburg

2019-09 – 2023-07

Bachelor of Infocommunication Technologies: Applied Programming

ITMO University - Saint-Petersburg
- GPA: 4.97/5.00
- Head of the study group

• Papers

Bayesian Networks for Named Entity Prediction in Programming Community Question Answering
- ICCS 2023 conference;
- doi.org/10.1007/978-3-031-36021-3_28

• 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