ANTON DOROFEEV

Machine Learning Engineer / Deep Learning Engineer / Data Scientist / Mathematician

@ antndor@gmail.com +7(952)36-111-39 antndor in antndor Moscow, Russia

SKILLS

Programming Languages

- Python, MATLAB

Tools

- PyCharm, Jupyter Notebook
- Bash, Git, TensorBoard, LaTeX

Machine Learning & Computer Vision

- NumPy, SciPy, Pandas, Scikit-learn
- Matplotlib, Seaborn
- PyTorch, TensorFlow, Keras
- OpenCV

Other

- Mathematical Modeling
- Cybernetics
- Control Theory
- Vector Optimization

EXPERIENCE

Computer Vision Engineer ***Samsung Research*** Feb 2022 – present

- *DL HDR Frames Merge*. Algorithms development, motion estimation and motion compensation improvements, noise reduction, article writing.

Junior Computer Vision Engineer Aug 2021 – Feb 2022

- *DL HDR Frames Merge*. Data preprocessing, augmentation, motion estimation, motion compensation, noise reduction, neural networks training, framework development, algorithms development, idea generation, reading articles. Preparation of the project for commercialization in the Samsung Galaxy S22 series.

EDUCATION

St Petersburg University, Mathematics and Mechanics Faculty St Peterburg, Russia

Postgraduate ***Mathematics*** 2024

Dissertation topic: Method of control dynamic systems using artificial neural networks with dynamically changing coefficients.

M.S. & B.S. ***Applied Mathematics and Computer Science*** 2020

Graduation project: Speed-gradient algorithm for the problem of classifying dynamic objects using artificial neural networks.

ACHIEVEMENTS

- Executor of the RFBR grant "Methods of adaptation and machine learning in the problem of controlling complex systems through network communication channels", 2021.
- Supervisor of the course "Mathematical methods of machine learning for image recognition problems" at the Youth Mathematical School, St. Petersburg, 2020/21.
- Speaker and medalist of the session "Information processing in navigation systems" at the 21st Conference of Young Scientists "Navigation and Motion Control", St. Petersburg, 19-22 March 2019.

PUBLICATIONS

Dorofeev, A. (2019). **"Gradient feedback method for training artificial neural networks"**. *Navigation and Motion Control. Proceedings of the 21st Conference of Young Scientists with international participants, SPb, Russia, 19-22 March 2019*. SPb, Russia: CSRI Elektropribor, JSC, pp. 310–311.

COURSES & CERTIFICATES

- Neural Networks and Computer Vision (Samsung AI)
- Python programming (Bioinformatics Institute)
- An Introduction to Data Science (SPbU)
- Probability theory (CS Center)
- Mathematical statistics (CS Center)
- An Introduction to Databases (CS Center)

INTERESTS

Visited 30 countries, hitchhiked over 100,000 km, hiked in 10 mountain ranges, rafted to Kara Sea.