

# ANTON DOROFEEV

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

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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 MultiFrames HDR*. Algorithms development, data pipeline development, implementation and training of SOTA networks, training speed improvement, objective comparison different solutions, noise reduction, details reconstruction, ideas generation, servers administration.

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