

# 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 HDR Frame Merge*. Algorithms development, article writing, motion estimation and motion compensation improvements, noise reduction.

### Junior Computer Vision Engineer

📅 Aug 2021 – Feb 2022

- *DL HDR Frame Merge*. Data preprocessing, augmentation, motion estimation, motion compensation, noise reduction, neural networks training, framework development, algorithms development, idea generation, reading articles.

## 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

*Mathematics, Science, Art, Nature, Travelling.* Visited 30 countries, hitchhiked more than 100,000 km, hiked in 10 mountain ranges, rafted to Kara Sea, etc.