NIKOLAI GAIDUCHENKO

Curriculum Vitae

@ Gaiduchenko.NE@gmail.com   yozh2   Moscow, Russia
📞 +7 (925) 450-8299   yozh2   0000-0002-2724-0878

💼 WORK EXPERIENCE

Middle Data Scientist
PJSC «Almaz», R&D dept.

📅 12.18 – present   📍 Moscow, Russia

Hypersonic aircraft vehicle trajectory generation, forecasting and classification using Deep Learning models

Junior Data Scientist
Machine Intelligence Laboratory by K.V. Vorontsov

📅 09.18 – 10.19   📍 MIPT, Dolgoprudny, Russia

One-click Deep Learning pipeline for synthetic document dataset generation, text recognition models

Engineering Assistant
Samsung R&D, AI Algorithms Lab

📅 06.18 – 09.18   📍 Moscow, Russia

Deep learning and computer vision for self-driving robot

Engineering Assistant
Laboratory of Design of Special Computer Systems Architectures

📅 10.17 – 12.18   📍 MIPT, Dolgoprudny, Russia

Sub-array antenna modeling app for CAD Radar Python package *«PyPhased»*

📘 PUBLICATIONS

👥 Conference Proceedings

● N. E. Gaiduchenko, P. A. Gritsyk, and Y. I. Malashko, "Multi-step ballistic vehicle trajectory forecasting using deep learning models", in 2020 International Conference on Engineering and Telecommunication EnT, Dolgoprudny, Russia, 2020.

● N. E. Gaiduchenko and P. A. Gritsyk, "Hypersonic vehicle trajectory classification using convolutional neural network", in 2019 International Conference on Engineering and Telecommunication EnT, Dolgoprudny, Russia, 2019.

● . and., " . .", in 59-, Dolgoprudny, Russia, 2016.

⭐ ACHIEVEMENTS

🏆 **Russian National Phystech Olympiad**
Prize winner: Physics

🏆 **MIPT Radio Engineering Competition**
Prize Winner

💵 **Abramov's Scholarship**
for excellent progress in 2018

💵 **Increased State Academic Scholarship**
for excellent progress in 2020, 2021

</> IT SKILLS

- **Python**: PyTorch, Keras, scikit-learn, PyQt5, pandas, numpy
- ROS, Arduino, AVR Micro Controllers
- Git, Docker, Google Colaboratory, experience in using AWS Amazon web services for complex calculations
- LaTeX, Adobe Photoshop, Adobe Illustrator, huge experience in design and presentations

🎖 RELEVANT COURSES

🐧 **Advanced C programming in UNIX environment**
by D. V. Lunev, core QEMU, Parallels, OpenVZ developer

🐍 **Kalman and Bayesian Filters in Python**
by Roger R. Labbe

📊 **Machine Learning and Data Analysis**
on Coursera by MIPT & Yandex

📊 **Building Deep Neural Networks in Python**
by Andrey Sozykin

🤖 **ROS Courses and Tutorials**
by Robot Ignite Academy

🔤 LANGUAGES

English
Advanced (C2)   ●●●●●

Russian
Native speaker   ●●●●●

Japanese
Beginner (A1)   ●●○○○

🎓 EDUCATION

Bachelor + Master

Moscow Institute of Physics and Technology

📅 2015 – present (6th year)   📍 Dolgoprudny, Russia

Phystech-School of Radio Engineering and Computer Science
Applied Mathematics and Physics, GPA: **9.2/10.0**

- Mathematics (Linear Algebra, Differential Equations, Probability, Statistics)
- General Physics, Theoretical and Quantum Mechanics, Field Theory, Statistical Physics
- Engineering, CAD, Micro Controllers, Radar Applications, Digital Signal Processing, Signal Theory
- Cryptography, Information Security Theory, Information Theory
- Computer Science, Computational Mathematics, ML algorithms and principles, Computer Vision
- Economics, Private Investments
- Philosophy, Management Psychology, Logics

Regional Lyceum for Gifted Children

📅 2013 – 2015   📍 Penza, Russia

Diploma with honours

👨‍🎓 TRAINING

SMILES Summer School of Machine Learning (Scoltech)

📅 2020   📍 Moscow, Russia

Kaspersky Cybersecurity Summer Lab

📅 2017   📍 Kaluga Region, Russia

MIPT Summer Olympiad School

📅 2015   📍 Dolgoprudny, Russia

MIPT Extramural School of Physics and Mathematics

📅 2011-2015   📍 Dolgoprudny, Russia

Diploma with honours: physics, mathematics, computer science

Nanograd Summer School (by RUSNANO School League)

📅 2011-2014   📍 Russia

Research and Marketing Projects for Hevel, Hemacore, Bukvoed

🖼 MEDIA SKILLS

- Adobe Photoshop & Illustrator, Pixelmator Pro
- Adobe After Effects & Premiere, Final Cut
- Cinema 4D, Mocha
- Microsoft Powerpoint, Prezi
- Adobe XD, Adobe InDesign

🎸 ACTIVITIES

Motion design   Guitar   Singing

Swimming   Bowling