**DMITRII IUNOVIDOV**

dm.iunovidov@gmail.com | +359 879 157 338 | [GitHub](https://github.com/DimYun) | [Linkedin](https://www.linkedin.com/in/dmitrii-iunovidov-2152a710a?jobid=1234&lipi=urn%3Ali%3Apage%3Ad_jobs_easyapply_pdfgenresume%3BKtBqVDKvRkmEOS3N2YUfFg%3D%3D&licu=urn%3Ali%3Acontrol%3Ad_jobs_easyapply_pdfgenresume-v02_profile) | Nesebar, Burgas, Bulgaria

Over 10 years of experience in the fertilizer industry, scientific research, and device development. Began my career as a Junior Researcher, contributing to the development of 5 new techniques for physical and chemical analysis and created 3 software solutions for optical control devices and physical-chemical methods of control. Currently serving as an Innovation Director (R&D), leading a team of up to 12 people in developing computer vision systems. Achieved a significant improvement in code readability, increasing it from 3 to 9.2 according to pylint. Key Skills: Computer Vision, MLOps, Machine Learning, Data Analysis, Neural Networks, R&D Management.

**Technical Skills:** Python, FastAPI, Torch, OpenCV, Streamlit, Git, DVC, Docker, jupyter-hub, CVAT, ClearML, Nextcloud, GitLab, Ubuntu Server (R&D Infrastructure), CI/CD

**WORK EXPERIENCE**

| **Innovative Director (R&D)** 2022 - now[**Autodoria**](https://avtodoria.ru/company) **LLC** | *Specializes in intelligent transport solutions, reducing road deaths by 51% and accidents by 15.6%*Development and implementation of research and development strategies in the field of computer vision and scene analysis.; management of a team of developers (6 people) and annotators (6 people); recruitment and technical onboarding of new employees, tracking team metrics; project management; searching, analyzing, and testing options for product improvement; managing MLOps and Torch models for deploying and optimizing ML systems; preparation of the R&D budget; presentation of solutions to senior management and clients; evaluation of market and scientific trends.* Implemented an automated testing system (pytest, GitLab runners, tox) and linters (black, pylint, flake 8), which led to an increase in code readability from 3 to 9.2.
* Introduced code review and live coding practices (weekly classes), which led to an increase in development team efficiency from 1 to 5 merge requests/month.
* Submitted 4 grant applications and 2 grant reports.
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| **Machine Learning Engineer** 2021 - 2022[**Rebels.ai**](http://rebels.ai) **|** *Company specializing in AI solutions for diverse industries** Built 3 neural network models with keras and pytorch (CNN, ResNet, LSTM), reviewed and written python code.
* Analyzed and worked with data of up to 500 GB, optimized computations – reduced memory usage from 54 GB to 13 GB, implemented projects in climate and satellite monitoring.
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| **Head of the Laboratory** 2011 - 2022[**'NIUIF' Ltd.**](https://www.niuif.ru/en/)| *Russia's only research institute specialising in phosphate rock processing technologies*Managing a team of researchers (4 people); managing laboratory infrastructure; performing statistical analyses of data and planning experiments: development of new techniques and methods, data collection and accumulation (SCADA, MES)* Created a team from scratch: searched for funding, selected equipment, hired staff.
* Created a full cycle of assembly and launch of control devices for industry.
* Achieved an increase in funding from 174,000 to 294,000 USD per year.

**Senior Researcher ← Junior Researcher*** Wrote 2 software, modified 2 released software.
* Developed 2 prototypes of quality control devices (`arduino`, `3D printing`, `laser cut`), and created methods for their analysis.
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| **Associate Professor I Senior Researcher** 2018 - 2023**Cherepovets State University** | *One of the leading research institutes in the field of mineral fertilizer production** Led research on ESG, satellite data, and computer vision; wrote 2 manuals, and published 5 papers.
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| **PROJECT** | **MLOps Engineer -** [**LogicYield**](https://logicyield.org/)* MLOps and server infrastructure (ClearML, Minio, CVAT, GitLab CI/CD, Docker Compose, FastAPI, Jupyter-hub)
* Developed and implemented software for industrial devices: backend and client modules (PyQt, OpenCV, scipy, numpy, pyserial, pyUSB, SQL, FastAPI, MQTT, multithreading)
* Created and optimized unique object segmentation models for CPU operation, published 3 scientific papers at Q1, Q2 level (CNN + Fourier, CNN + BoundaryIoU)
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**EDUCATION**

| 20172012 | **Institute for Analytical Instrumentation, Russian Academy of Sciences |** Doctor of Philosophy - PhD, Engineering **Moscow State University** |Analytical Chemistry and Nanotechnology, Graduated with Honors.  |
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**ADDITIONAL INFO**

**Languages**: English – C1, Bulgarian – A2, Russian – native
**Certificates and training:** 2019, [Microsoft Professional Program. Data Science](https://dimyun.space/extra/certificates-awards/aw_certif-edx-course_2019.pdf)2024, [Machine Learning in Computer Vision (CVRocket)](https://github.com/DimYun/car-plate-segm_model)