Andrey Marakulin

👤 25 y.o.

📍 Moscow, Russia

🌐 Russian, English

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🧑‍💻 Work experience

- **Deep Learning Engineer, Python developer**

  2020-2024 Center of Engineering Physics at Lomonosov Moscow State University

  Working on "EyePoint P10" - a signature analysis system. EyePoint P10 aims to detect faulty electronic components on printed circuit boards. Deployed a cluster of virtual machines for internal build and testing pipelines (Jenkins) - an analogue of GitHub Actions.

- **Data Scientist and backend-developer**

  2023-2024 Business process audit

  Developed an applied neural network solution for monitoring office premises using CCTV cameras. Carried out the full development cycle (except for the frontend): from collecting

and annotate data to deploying the real-time backend of the trained model.

- **DL-engineer**

  2023 Moscow Institute of Physics and Technology

  For a short time I worked in a laboratory engaged in the analysis of echolocation images. My main task was to process data and apply object detection models such as YOLO.

- **Teacher of neural networks courses**

  2020-2022 Lomonosov Moscow State University

  I teach a one-year Neural Networks course for postgraduate MSU students. The course covers a wide range of neural networks types, deals with solving various problems. In the second part of the course, students did implement neural networks in their scientific work under my guidance

- **Ideological mastermind of the faculty application**

  2021-2023 MSU Faculty of Physics

  With friends, created a community of volunteer programmers of MSU Faculty of Physics. With team, we developed PWA application for students and teachers of the faculty, which is used by almost the entire faculty. The application consists of many modules covering a large stack of technologies like: databases, servers, APIs, auth, frontend, backend, analytics.

🎓 Education

- **Lomonosov Moscow State University**

  (2018-2022, Moscow, Bachelor's degree in "Physics", Faculty of Physics, Department of particles physics

- **Moscow Institute of Physics and Technology**

  (2022-2024, Dolgoprudny) Master's degree in Applied Mathematics and Computer Science, Department of Technologies of Digital Transformation

🛠️ Skills

- **Primary stack**

Python, PyTorch, TensorFlow, NumPy, Matplotlib, Pandas, OpenCV, FastAPI, Docker, Jupyter Notebook — Deep learning solutions, backend, data analysis.

- **Secondary stack**

  PostgreSQL, C++, Javascript, Qt, HTML, CSS, jQuery, Boootstrap, GraphQL, Arduino — Sites, GUI, microcontrollers firmware.

- **Other**

  Linux, Jenkins, VirtualBox, Vagrant, Git, Mercurial, GitHub, GitLab, GraphQL, Groovy — CI/CD, DevOps, automatization, pipelines.

🧩 Open source projects

- **Neural networks course** - NN course for postgraduate MSU students
- **Faculty application** - Timetable, printers, lectures, bots, services
- **EPC-MSU/epdetection** - Module to detect PCB components by neural network
- **GitHub Issue Telegram Bot** - Bot for creation GitHub issue straight from Telegram group chat
- **PulchraBookmarks** - Chrome extension for newtab
- **SecurePhotos** - Photo gallery with encryption

📧 Contacts

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