



# MARIIA MAKAROVA

## Machine Learning Engineer

Communicative and motivated MSc-1 student studying Advanced Computational Science in Skoltech. Possess a huge desire to grow as a Machine Learning Engineer.



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Github: github.com/makmary

### Area of expertise

- **Backend:** NestJS
- **Frontend:** Javascript, ReactJS, Redux, Material UI, CSS, HTML5, ES6, webpack, SASS, etc.
- **Tools:** GIT, BitBucket, npm, yarn, Jira, Figma, linux
- **Languages:** Javascript, Python, R
- **Skills:** PostgreSQL, Clickhouse, jupyter, seaborn, pandas, numpy, scipy, matplotlib, bootstrapped
- **Russian:** Native
- **English:** Advanced / C1

### Achievements

- **Galaxy Coding Hack 2021** Winner
- Participated in **2021 Conference of Russian Young Researchers in Electrical and Electronic Engineering**
- **Digital Breakthrough Hackathon 2020** Winner
- Finished extra course "**Product Analytics**" provided by Mail.Ru
- Participated in the **RAIFHACK hackathon**, 2020
- Participated in SCRUM game at the **online festival 2020 Raiffeisen DGTL Fest**
- A finalist of online **VTB hackathon** in 2020
- published one research paper "**Methods of Detecting and Neutralizing Potential DHCP Rogue Servers**" in IEEEXplore

### Projects

- **Pump It Up** - coordinated the implementation of a project to predict the functionality of water pumps in Tanzania by using ML models. Tools: pandas, numpy, sklearn, logreg, KNN, random forest, gradient boosting, GridSearchCV.
- **Measuring distance between drone and AprilTag** - used CV algorithms to determine the distance between flying drone and any item with AprilTag. Tools: ROS, cv2.
- **Game of Life** - developed a simulation of living cells on the board. Tools: python, OOP, argparse, schedule.

### Work Experience

#### Frontend developer

Novilab Mobile | November 2019 - February 2020

Developed a full stack web application, a multilingual platform for E-Commerce, using React and Redux, Semantic UI, webpack.

#### Frontend developer

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute) | June 2020 - January 2021

Developed a CTF Dashboard, a website for MEPhI in order to monitor and collect scientific works of undergraduate and graduate students, and a CTF Dashboard for MEPhI students using React, Redux, Material UI, webpack.

### Academic History

#### Skolkovo Institute of Science and Technology (Skoltech)

Institute of Mathematics and Computer Science  
Master of Science in Advanced Computational Science, 2021-2023

GPA: 4.0 / 5.0

**Relevant Courses:** Intro to Data Science, Scientific Computing, Path Planning in AI, Intro to Computer Vision, Numerical Linear Algebra, Machine Learning, Tensor Decompositions and Tensor Networks in AI.

#### National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

Institute of Computer Systems and Technologies  
Bachelor of Informatics and Computer Engineering, 2017-2021

**Thesis:** Methods of Detecting and Neutralizing Potential DHCP Servers

GPA: 4.4 / 5.0