

# BADERKO MAKAR

makarbaderko@gmail.com

+7(985)346-23-82

t.me/makarbaderko

## ABOUT ME

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I am a 15 year old passionate Junior Machine Learning Developer. I would like to gain some work experience while collaborating with curious people on some interesting projects.

## SKILLS

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**Technical Skills** Python3, C++, Scikit-learn, Gradient Boosting, Tensorflow, Pytorch, Pandas, Matplotlib, Git, Docker, PostgreSQL, Arduino, Fusion 360 and L<sup>A</sup>T<sub>E</sub>X

**Languages** Russian - Mother Tongue, English - C1 (Certified), German - B1, Italian - A0

**Interests** Microelectronics, Engineering, Videography, Teaching, Reading

## WORK EXPERIENCE

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### **Biometriclabs**

Embedded Developer

(June 2021 - August 2021)

- Building prototypes of innovative products with the Raspberry Pi, collecting human heart rate data and converting it into the required digital format.

### **Biometriclabs**

Backend Developer

(July 2023 - August 2023)

- Creating a high-performance codebase to connect the mathematical models written in C with the existing UI and the database of reports from sensors.

## PERSONAL PROJECTS AND COMPETITIONS

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### **Personal Projects**

Automated Trash Sorting Conveyor

- While working on this projects I used such technologies as OpenCV, Tensorflow, Arduino and Fusion 360 as a CAD software
- This project was a combination of Deep Learning, Microelectronics and 3D Modelling.

### **Different Kaggle Competitions**

(June 2019 - Present)

- Developed different strategies, both using external libraries and self-created algorithms.
- Was able to achieve such results in commercial competitions:
  - SIIM-ISIC Melanoma-Classification* - Placed 836/3308
  - Cornell Birdcall Identification* - Placed 784/1390
  - M5 Forecasting* - Placed 701/5558
  - ALASKA2 Image Steganalysis* - Placed 629/1095
  - Rock, Paper, Scissors* - Placed 622/1662
  - Halite by Two Sigma* - Placed 338/1139
  - Hash Code 2021 - Traffic Signalling* - Placed 83/179

### **Other Competitions**

(2022 - Present)

- Winner of the National Data Analysis Olimpiad DANO (Run by the Higher School of Economics)

## EDUCATION

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### **Online Courses**

- The Complete SQL Bootcamp
- Data Structures + Algorithms
- Reinforcement Learning in Python
- Deep Learning: Advanced Computer Vision (GANs, SSD, +More)
- Tensorflow 2 and Keras Deep Learning
- Building Recommender Systems
- Natural Language Processing with Python
- Machine Learning Bootcamp

### **Offline Studies**

- MIPT Summer Olympic School (Sport programming)  
Finished with A- B+ grades, placed 2nd in a team-based algorithms competition.  
During this intensive course I learned Dynamic Programming, Graph Traversals, different sorting and searching algorithms.