

Baikalov Vladimir

Personal Information

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Education

Bachelor degree at ITMO University

September 2017 - August 2021

Computer science major (Applied math and programming)

GPA: 4.65/5.00

Thesis project: Implementing multi-agent policy-based algorithm for conveyor systems

Huawei Machine Learning course

September 2019 - June 2020

Courses for computer science students at ITMO University

Professional experience

Huawei R&D Dept. ITS Team. ML Engineer. Saint-Petersburg

March 2020 - July 2021

Stack: Python, OpenCV, PyTorch, Tensorflow, C++

Relevant areas: Object Detection/Tracking, Digital Sound Processing, Optical Character Recognition

Algorithm for vehicles trajectories prediction using radar data only. This approach now is being used in a real-world application. Final solution **over-performs by 44% better** than the previous algorithm

Car occupation algorithm for outdoor and underground parking lots based on detection and tracking algorithms. This solution was presented to the product team for further implementation in the product

Algorithm for the knuckle-knock sound pattern detection. Proposed architecture achieved **90%** Precision and **95%** Recall. With further touch sensors usage Precision was improved up to **94%**

Researcher at ITMO ML lab

September 2020 - July 2021

Stack: Python, PyTorch

Area of study: Reinforcement Learning

Developed multi-agent policy-based algorithm REM (Reinforce, Embedding, Monte-Carlo) for baggage handling system (BHS), which over-performs previous approaches. It was statistically proven with received **p-value less than 0.01**

The paper describing this research is in the process

Lecturer at ITMO Academy

November 2019 - June 2020

Lecturer at C/C++ courses for high school students

Technical skills

Proficient:

Python, C++, PyTorch, OpenCV

Advanced:

Tensorflow, Keras, Git, Bash

Experience with:

Java, Kotlin, SQL, Haskell, Qt framework

Achievements

English : Level **C1 (Advanced)**. IELTS certified

Got a Huawei scholarship for outstanding students in Machine Learning