

Bartłomiej Cupiał

Machine Learning Engineer, hopes to become a researcher.

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EDUCATION

Wrocław University of Science and Technology

BSc in Computer Science

2016.10 - 2020.02

WORK EXPERIENCE

Machine Learning Engineer

LifeFlow - main project

- Responsible for design and implementation of machine learning based solutions for cardiac diagnostics problems.
- Developed computer vision algorithms applied to medical data.
- Working with voxels and meshes.
- Using Python, PyTorch, ONNX, Docker, AzureML
- Developing non-invasive cardiac diagnostics system. Created machine learning-based solutions for segmentation of coronary arteries and myocardium. Solving computer vision tasks related to 3D medical data in voxels and meshes. Researching application of reinforcement learning algorithms to the medical domain

2019.11 - Present

LifeFlow - research project

- Goal of the project is to track coronary arteries with help of reinforcement learning algorithms.
- Using Python, PyTorch, PyTorch Lightning

2021.01 - Present

C++ developer in starter program

Asseco

2019.07 - 2019.10

PROJECTS

Reinforcement Learning algorithms for pong game and MuJoCo (2020.10 - 2020.11)

- Small projects coded during Stanford RL course
- Used PyTorch, openai gym, MuJoCo environment
- Implemented DQN and Dueling DQN for pong and Vanilla Policy Gradient, TRPO, PPO for MuJoCo

Machine Learning analysis of network simulations (2020.03 - 2020.09)

- The goal of the project was to learn about GNNs and how they can be used in finding inconsistency problems in graphs.
- Used PyTorch, Pytorch lightning
- Implementing Graph Consistency paper, supervising Solvro ML team

My Engineering Thesis (2019)

- Topic: Methods of camera recognition based on image samples
- Used machine learning methods

My own implementation mix match algorithm (2019.06)

- Used PyTorch and fastai

SKILLS

Python



C++



Git



Linux



Docker



ORGANIZATIONS

Solvro Students' Association (2018 – Present)

LANGUAGES

Polish

Native

English

B2/C1

ADDITIONAL EXPERIENCE

Stanford reinforcement learning course

Conducting workshops for new people interested in machine learning in Solvro Students' Association

MLinPL students speaker (2019 Conference)

Talk about MixMatch

Fastai course by n-weaves

Participation in few kaggle contests

Hopelt Hackaton

INTERESTS

Reinforcement Learning

Open-endedness

Chess

Basketball