Bartłomiej Cupiał

Student, Machine Learning Engineer, interested in reinforcement learning.

✉ bartlomiej.cupial@gmail.com   📱 505779373   📍 Gliwice, Poland   in linkedin.com/in/7b37b0160

EDUCATION

Jagiellonian University
Msc in Computer Science, Machine Learning
2021.10 - Present

Wrocław University of Science and Technology
BSc in Computer Science
2016.10 - 2020.02

WORK EXPERIENCE

Machine Learning Engineer
Hemolens
- 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
- Author of two patents
- 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

C++ developer in starter program
Asseco
2019.07 - 2019.10

PROJECTS

Generate films with GANs (2022.04 - Present)
- I am working on the project in collaboration with members of the Jagiellonian University, GMUM.
- We work on data collected from the inside of the intestines and use ProGAN
- Using PyTorch

Transformers in Continual Reinforcement Learning (2021.10 - Present)
- I am working on the project in collaboration with the IMPAN group and members of the Jagiellonian University, GMUM
- Development of the work from the publication Continual World
- Using PyTorch, Tensorflow, MuJoCo environment

Generate chemical compounds which are compatible with the given pharmacophore (2021.10 - 2022.01)
- Work uses Graph Neural Networks, and modifies JTVAE.
- Used PyTorch, PyTorch Geometric

My own implementation mix match algorithm (2019.06)
- Used PyTorch and fastai

SKILLS

Python ●●●●○

Git ●●●○○

Linux ●●●○○

Docker ●●○○○

ORGANIZATIONS

Robotics and Artificial Interlligence Students Association of Jagiellonian University
2021 – Present

Solvro Students' Association
2018 – 2020

LANGUAGES

Polish
Native

English
B2/C1

ADDITIONAL EXPERIENCE

Participant in RL Summer School

Participant in MLSSN 2022

Stanford reinforcement learning course

Conducting workshops for new people insterested 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

HopeIt Hackaton

INTERESTS

Reinforcement Learning   Chess   Basketball