

Piotr Lachert, PhD

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SUMMARY

I am a deep learning engineer with corporate and startup experience. I want to contribute to developing great AI tools, that will have impact on people's lives. I am looking for an opportunity to grow by working with other AI enthusiasts on challenging projects.

WORK EXPERIENCE

Deep Learning Engineer at MX Labs

Jul. 2021 -

Working on a model for blood pressure estimation based on video recording of a face using remote Photoplethysmography (rPPG). My responsibilities in this project involved:

- Implementation of DL architectures based on papers and my own concepts.
- Uncertainty estimation
- Creating pipelines
- Model deployment

Technology/frameworks: CNNs, Vision Transformer, PyTorch, PyTorch Lightning, Hydra, ONNX, TensorBoard, MLflow, W&B, GCP

Data Scientist at Samsung R&D Institute Poland, AI Audio Division

Sep. 2018 - Jun. 2021

Developing deep learning models in the following projects:

- Speaker recognition/verification/diarization
- Spoofing detection
- Sound Event Detection

Technology/frameworks: CNNs, TDNN (x-vectors), TensorFlow, Keras, TensorFlow Lite, Librosa, sox, Kaldi, Tensorboard

EDUCATION

Feb 2022 PhD in Biomedical Engineering, *Institute of Biocybernetics and Biomedical Engineering*

June 2019 Postgraduate studies (Big Data), *Warsaw University of Technology*

Sept 2015 Master of Science in Physics, *University of Warsaw*

June 2013 Bachelor of Science in Physics, *University of Warsaw*

SKILLS

Technical skills: Computer Vision, Deep Learning, Python, OOP, Statistics, Digital Signal Processing, cloud computing, DVC, Git, Docker

Frameworks and libraries: Albumentations, Detectron2, Torchvision, OpenCV, PyTorch, PyTorch Lightning, ONNX, Tensorflow, Keras, Hydra, NumPy, SciKitLearn, Seaborn, Pandas, Tensorboard, MLflow, Weights & Biases, Streamlit

Other skills: Problem solving, communicating data, adaptability, collaboration skills

Languages: Polish (Native), English (C1)