Tomasz Hawro

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EDUCATION

- **Wrocław University of Science and Technology** — Wrocław, Poland
  Bachelor's degree - Biomedical Engineering, Medical Informatics (Grade 5.5) — 2017 - 2021

- **Wrocław University of Science and Technology** — Wrocław, Poland
  Master's degree - Artificial Inteligence (Grade 5.5) — 2021 - 2023

SKILLS SUMMARY

- **Languages**: Python, Java, JavaScript, SQL, Android.
- **Libraries**: PyTorch, PyTorch Lightning, NumPy, Matplotlib, Optuna, scikit-learn, SciPy, pandas, plotly, OpenCV.
- **Tools**: GIT, Jupyter, MLFlow, WandB, DVC, AutoML, Streamlit, Docker, Sphinx, Linux, Hydra.
- **Other**: Solid knowledge of classical machine learning and neural networks algorithms.

EXPERIENCE

- **BonaSoft**
  Python Developer — Mar 2021 - Jul 2021
  - **Backend development**: Implementation of REST API backend for a website. **Tech**: Python, Django, Swagger.
  - **Unit tests**: Implementation of unit tests for REST API calls. **Tech**: Python, Django.

- **MX Labs**
  Machine Learning Engineer — Jul 2021 - Present
  - **Deep Learning (DL)**: Implementation of DL architectures for PPG signals based blood pressure estimation. **Tech**: PyTorch, PyTorch Lightning.
  - **DL**: Implementation of lightweight CNN architectures for face metadata extraction. **Tech**: PyTorch.
  - **Research**: Versatile research on ML and DL approaches for blood pressure estimation based on PPG signals.
  - **Feature Engineering**: Implementation of feature extraction algorithms for the PPG signal. **Tech**: NumPy, SciPy.
  - **Biomedical signals codebase**: Prototyping and implementation of object oriented codebase for biomedical signals processing. **Tech**: SciPy, NumPy, pandas.
  - **AutoML**: Optimizing ML models and preprocessing pipelines with Optuna. **Tech**: Optuna, Joblib, scikit-learn.

PROJECTS

- **Bachelor thesis**: Categorization of auditory evoked potentials using machine learning. **Tech**: Python, scikit-learn, pandas, NumPy, SciPy.
- **Master thesis**: The influence of medical signals representation on machine learning models results. **Tech**: Python, PyTorch, PyTorch Lightning, scikit-learn, pandas, NumPy, SciPy.
- **GlucoPred**: Implementation of feature extraction and machine learning pipelines for glucose level estimation based on PPG, Accelerometer, EDA and Temperature biomedical signals. **Tech**: Python, NumPy, SciPy, BioSPPy, PyTorch, scikit-learn, Matplotlib, pandas
- **Covid19**: Web application for Covid19 data visualization. **Tech**: Python, Django, JavaScript, React.
- **Prenatally**: Mobile application for pregnancy monitoring. **Tech**: Java, Android, SQL.

HONORS AND AWARDS

- Winning the Dean's Award twice.
- Winning the poster session competition at *OMatKo!!!* conference - November, 2021.
- Winning the competition of IT projects of the AI Tech Summer School during the poster session - May, 2022.

LANGUAGES

- **Polish**: Native
- **English**: Proficient