Kamil Jaworski

Machine Learning Engineer

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ABOUT ME

My professional approach is characterized by commitment, systematic work, and continuous improvement of skills. I not only complete assigned tasks but also aspire to achieve the highest standards in every project, deriving satisfaction from my work. With full confidence in my abilities, I am ready to prove myself as a valuable team member and contribute to achieving exceptional results.

TECH STACK & CORE SKILLS

- **Programming and Tools:** Python (PyTorch, TensorFlow, Keras, NumPy, Pandas, Matplotlib, OpenCV), C / C++, Git, Bash, Java.
- **Data Engineering:** Dataflow, Data Pipelines, BigQuery, Big Data.
- **Cloud and Databases:** GCP, Azure, Kubernetes, PostgreSQL, SQL.
- **Applied AI:** Machine Learning, MLOps, Data Science, Statistics.
- **Soft Skills and Methodologies:** Agile, Clean coder, Analytical skills, Quick learner, Problem solver, Team player.
- **Languages:** Polish (Native), **English** (**C1**), German (A1).

PROJECTS

- Developed a **deep learning** model for keyword detection in spoken sentence,
- Segmentation of photovoltaic panels from aerial images using **U-Net** and **V-Net** neural networks,
- Developed a novel **diffusion model** to generate **mathematical functions** with a unique approach,
- Fine-tuned the **Stable Diffusion** model using **Google's Dream Booth** technique and **LoRA**,
- Classifier calibration in **continual learning** with regularization to improve knowledge distillation methods,
- Working on the generation and identification of **deepfake** alterations in video content using GAN's with pretrained transformers.

EDUCATION

Warsaw University of Technology   10/2023 – 06/2025
- Master of Computer Science

Kielce University of Technology   10/2017 – 09/2022
- Master of Science in Automation and Robotics

EXPERIENCE

Embedded Software Engineer| Mesko S.A.   08/2022 – 09/2023
- Developed and maintained **C, C++** and **Python** software solutions across various products,
- Implemented **Kalman filter** for missile guidance, enhancing accuracy through real-time data modeling from accelerometers and gyroscopes, which led to more precise targeting.
- Developed a model for optimizing a product using **reinforcement learning** techniques, focusing on improving operational efficiency and decision-making processes in dynamic environments, thus increasing overall system effectiveness.
- Ensured effective hardware-software integration by collaborating with interdisciplinary teams,
- Conducted comprehensive testing and validation to guarantee project success under diverse conditions, ensuring **robustness** and **reliability**.

Software Developer – Machine Learning Internship | Altar   11/2020 – 12/2020
- Contributed to the development **chatbot model** for a telecommunications company, utilizing natural language processing (**NLP**) techniques. The project focused on optimizing user interactions and enhancing customer service efficiency through advanced machine learning algorithms.

HOBBIES & INTERESTS

electronics, tennis, cycling, studying tech articles on neural networks and emerging technologies.