Sophia Kowalski

Warsaw, Poland

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Education

Warsaw University of Technology

Master of Science in Artificial Intelligence

Oct 2019 – Jul 2021 | Warsaw, Poland

GPA: 4.8/5.0

Activities: University AI Lab Research Assistant, Data Science Hackathon Organizer, Women in Tech Mentor

Relevant Coursework: Computer Vision, Image Processing, Neural Networks, Deep Learning, Visual Recognition, 3D Vision, Video Analysis

Bachelor's Degree: B.Sc. in Computer Science, Jagiellonian University, GPA: 4.7/5.0

Work Experience

Computer Vision Engineer | Samsung R&D Institute | Aug 2021 - Present | Warsaw, Poland

- Developed real-time object detection and tracking algorithms for Samsung smartphone cameras.
- Implemented facial recognition systems with anti-spoofing capabilities, achieving 99.7% accuracy.
- Created deep learning models for image enhancement and computational photography features.
- Optimized neural networks for mobile devices, reducing inference time by 60% while maintaining accuracy.

Skills

Computer Vision: Object Detection, Image Classification, Segmentation, Tracking, 3D Reconstruction

Deep Learning: CNN, R-CNN, YOLO, SSD, Transformers for Vision, GANs, Diffusion Models

Frameworks: PyTorch, TensorFlow, OpenCV, ONNX, CoreML, TensorFlow Lite

Image Processing: Filtering, Feature Extraction, Homography, Color Correction, HDR Imaging

Optimization: Model Pruning, Quantization, Knowledge Distillation, TensorRT

Hardware: GPU Acceleration, Mobile GPU/DSP/NPU, Embedded Vision Systems

Other: Camera Calibration, Augmented Reality, Depth Estimation, Visual SLAM, Optical Flow

Certificates

NVIDIA Deep Learning for Computer Vision

TensorFlow Developer Certificate

OpenCV Advanced Computer Vision Certification

Intel Edge AI Certification

Awards

Best Computer Vision Solution – European AI Conference 2023

Samsung Global Innovation Award 2022

Outstanding Research Paper – International Conference on Computer Vision 2022