🤳 +48 789 104 008 | 🖂 bcywinski11@gmail.com | 🛅 bartosz-cywinski | 🗘 cywinski EDUCATION PhD Computer Science – Machine Learning 10/24 - 10/28Warsaw University of Technology Computer Vision Lab • Research in the area of mechanistic interpretability of vision models M.Sc. Computer Science 02/23 - 09/24Warsaw University of Technology The Faculty of Electronics and Information Technology • GPA: 4.7/5, Summa Cum Laude • Thesis title: Continual learning with diffusion models **B.Sc.** Computer Science 10/19 - 02/23Warsaw University of Technology The Faculty of Electronics and Information Technology • GPA: 4.47/5 • Thesis title: Adaptation of a continual learning method that alleviates the problem of forgetting for Generative Adversarial Networks 1. B. Cywiński, K. Deja SAeUron: Interpretable Concept Unlearning in Diffusion Models with Sparse Autoencoders Under review 2. L. Staniszewski*, B. Cywiński*, F. Boenisch, K. Deja, A. Dziedzic Precise Parameter Localization for Textual Generation in Diffusion Models ICLR 2025 3. B. Cywiński, K. Deja, T. Trzciński, B. Twardowski, Ł. Kuciński GUIDE: Guidance-based Incremental Learning with Diffusion Models Under review 4. K. Deja, B. Cywiński, J. Rybarczyk, T. Trzciński Adapt & Align: Continual Learning with Generative Models' Latent Space Alignment 07/24 - 09/24**Research Intern** CISPA Helmholtz Center for Information Security – SprintML Lab • Research in the area of interpretability of diffusion generative models Machine Learning Engineer 11/23 - 05/24AI Clearing • Improved solar modules classification accuracy by 5% implementing algorithm based on segmentation masks • Developed deep learning models for construction progress tracking on solar farms **Research Intern** 04/23 - 09/23IDEAS NCBR - Computer Vision Group • Research in the area of continual learning with diffusion generative models 03/22 - 03/23Machine Learning Engineer Asseco Business Solutions • Researched and adapted new deep learning architectures for object detection, enhancing product detection quality on retail shelves

- Implemented training pipelines in PyTorch for segmentation models, improving logging and error analysis
- Revamped the data labeling workflow by integrating active learning techniques optimizing the selection of data

AWARDS AND ACHIEVEMENTS

- 3rd place in the XLI national competition for the best computer science master theses organized by The Polish Information Processing Society.
- Honorable mention in the III national competition for the best computer science bachelor theses organized by The Polish Information Processing Society.

Skills

Coding: Python, SQL, MATLAB, R, Git

Python libraries: PyTorch, PyTorch Lightning, Diffusers, Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV, WandB Databases: PostgreSQL, PL/SQL, MySQL

Misc.: Algorithms and data structures, fundamental ML algorithms, deep learning Languages: English: advanced reading, writing, and speaking; Polish: native

Bartosz Cywiński

PUBLICATIONS

EXPERIENCE