

GERGELY PAPP

Sr. Machine Learning Engineer

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Gergely 0.91



8+ years in deep learning

ML system design

From research to production

Edge or cloud: Azure, AWS, GCP

SKILLS

Deep Learning: CNNs, ViTs, transformers (BERT), GANs & VAEs, custom losses, DDP

Computer vision: detection, segmentation, OCR, self-supervised learning

NLP & LLMs: LoRA fine-tuning, embeddings, RAG, LangChain

Frameworks: PyTorch, TensorFlow, Hugging Face, OpenCV, Scikit-Learn

MLOps: Docker, GitHub Actions, Azure, AWS, ONNX, TensorRT, SLURM, Wandb

EDUCATION

MSc Artificial Intelligence 2024
University of Amsterdam
(8.1, cum laude)

BSc Computer Science 2017
University of Manchester
(2:1)

LANGUAGES

Hungarian (native) · English (fluent) ·
French (basic) · Dutch (A1.1)

PUBLICATIONS

- Neural Networks 2023: Mode combinability: Exploring convex combinations of permutation aligned models
- ReScience 2023: Reproducibility study of "Label-Free Explainability for Unsupervised Models"
- NeurIPS 2021: Similarity and Matching of Neural Network Representations
- AITP 2021: Ordering Subgoals in a Backward Chaining Prover

INTERESTS

Pool billiard (European champion 2010)
Piano · Gym · Dining out · Gaming

EXPERIENCE

Data Scientist & ML Engineer | Datacation B.V. | 01/2026 – present

- Design and train vision systems for client projects: data flow, label definitions, detection, classification and 3D segmentation models, post-processing
- Set up on-site cameras, edge devices and data collection for vision deployments
- Engineering lead on an LLM / RAG project: own the backlog and coordinate the team
- Fine-tune LLMs (LoRA) and embedding models
- Deploy to Azure, the in-house GPU server and edge / on-prem client hardware; optimise inference (ONNX, TensorRT, quantisation)
- Built CI/CD for continuous model training and validation
- Scope PoCs and budgets with clients; weekly updates and result presentations
- Admin of the team GPU server
- Interview and onboard data scientists

AI Engineer | Freelance (TruthWorks) | 06/2025 – 01/2026

- Built the OCR pipeline for case documents and an image-captioning system for visual evidence
- Designed RAG workflows and knowledge graphs over investigation bundles of thousands of pages
- Built summarisation and contradiction detection across case files for US police departments

ML Consultant (part-time) | Asura Technologies | 10/2020 – 07/2024

- Lead ML engineer in a team of ~5 on computer vision projects
- Raised object detection accuracy from 75% to 93% by debugging the model re-implementation, reworking the training recipe and post-processing
- Advised on technology choices and implementation to streamline the team's workflows

Machine Learning Engineer | Asura Technologies | 10/2018 – 10/2020

- Designed, trained and served real-time object detection models
- Built the in-house license plate recognition (ALPR) and OCR engine from scratch, replacing a paid third-party solution
- Built an automated parking system tracking vehicles across a car park
- Delivered PoC models for new customers

Deep Learning Research Engineer | Alfréd Rényi Institute of Mathematics 10/2020 – 07/2024 · part-time from 09/2022

- Researched representation learning (self-supervised image classification, similarity of neural network representations, NLP transformers) and generative models (GANs, VAEs)
- Designed custom architectures, layers and loss functions in PyTorch; multi-GPU distributed training (DDP)
- Built scalable pipelines for model training and evaluation
- Co-authored the first NeurIPS paper from a Hungarian institute

Risk Analyst (AI team) | Morgan Stanley | 08/2017 – 05/2018

- Automated data-processing workflows, saving ~100 hours per week
- Built clustering and forecasting models on tabular data
- Built a hierarchical-clustering tool to reconcile balance sheets across accounting systems, and an OCR system extracting structured data from invoices