

Grigory Grechkin

ML-Engineer

Master's student and entry-level ML Engineer with hands-on experience in PyTorch model training, experiment tracking, multi-run pipelines, and production-grade serving. Open-minded and committed to self-improvement.



Work Experience

Research Assistant in ML — RPTU Kaiserslautern, Germany *Jun 2025 – Present*

- Added support for Hard-ImageNet & ImageNet-1k; unified dataset API, fixed class-index mapping.
- Trained SSL contrastive learning model using **PyTorch** on added datasets; improved avg group accuracy by **3.0 pp vs** baseline through model finetuning tuning.
- Set up **W&B** experiment tracking (metrics, artifacts, model registry) and results analysis with **Power BI**

Education

B.Sc. Computer Science, RUDN Moscow, Russia *Sep 2017 – June 2021*. GPA: 84 / 100 (2.0 DE)

Major — Software Engineering. Minor — Math.

M.Sc. Computer Science, RPTU Kaiserslautern, Germany *Oct 2022 – Present*. GPA: 2.3 (DE)

Major — Intelligent Systems. Minor — Software Engineering.
Relevant courses — ML 1, ML 2, Neural Networks for NLP, Database Systems.

Kaiserslautern, Germany

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<https://github.com/GrGrie>

Programming Languages:

Python, SQL

Technologies:

Core: PyTorch, scikit-learn, SciPy, NumPy, pandas, Matplotlib

Production: FastAPI, Docker, Weights & Biases, Power BI, Slurm

Languages:

Russian — Native speaker
English — Advanced (C1)
German — Fluent (B2)

Projects

Discouter Prospekt OCR: (WIP)

- Built scraper and **custom product-detection stage model** (YOLOv11): custom dataset curation, augmentations, training & evaluation; export cropped regions (titles/prices) for OCR
- Implemented **FastAPI** and **Docker** support, to be able to run scraping and cropping using trained model using web UI
- **Text extraction stage** not yet completed — currently prototyping OCR (Tesseract) and post-processing for price/discount normalization