cv · 2026

Vitalia Stepashkina

Machine Learning Engineer · Computer Vision & Healthcare AI

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profile

ML engineer with 3+ years shipping production systems, from marketplace-scale matching to clinical diagnostics. I own ML and LLM products end to end, from model training to the thing people actually use.

experience

Guest Researcher, CV & Medical AI — Helmholtz Munich, Marr Lab — Apr 2026 – present

- Build an end-to-end Python package for leukemia diagnostics from blood smears: cell detection, segmentation, feature extraction, zero-shot classification.
- Build its validation framework; clinical research teams use the pipeline directly.

Computer Vision Engineer, Product Matching — Ozon Tech — Feb 2024 – Aug 2026

One of Eastern Europe's largest e-commerce platforms

1.5B	>95%	350 → 32 MB
pairs scored per day	accuracy, real-time inference	matcher, ~10× smaller

- Owned, end to end, the system matching products against competitor marketplaces for automated pricing, scoring **1.5B** pairs per day.
- Led its migration from batch to real-time inference above 95% accuracy; shrank the matcher ~10× (350→32 MB) with almost no quality loss.
- Trained ConvNeXt v2 and SigLIP encoders with Matryoshka embeddings.
- Automated MLflow training, saving 4.5 person-days per cycle; built tooling a 14-person team ran on.

ML Engineer, MedTech — SPLAT Global — Oct 2022 – Feb 2024

International oral care brand, 70+ countries

- Designed and deployed a diagnostic system at **95%** accuracy across 10 clinical sites; first-named inventor on patent application PCT/EP2024/073623.
- Merged lab biochemistry and image features in one pipeline, joining two teams that had never shared data.

builds

AI Speed Dating — TUM hackathon, team of four — Jul 2026

- Orchestrated 12 LLMs from different cultural clusters in anonymous debates on ethical dilemmas, each ending in a structured "second date" verdict.
- Owned prompting, matching logic and frontend (React, FastAPI, OpenRouter); demoed live at a public showcase.

DiagKnows — LLM assistant for cancer patients — Dec 2025 – Feb 2026

- Built a five-layer RAG pipeline: OCR, local LLM via Ollama, Pydantic validation, retrieval, guarded medical explanations; benchmarked against OpenAI API.

education

M.Sc. Data & Society — TU Munich · average 1.3 (1.0 = best) — 2025 – 2027

B.Sc. Software Engineering, AI minor — HSE University — 2021 – 2025

Diploma with distinction, top 1.32% · Publication, Doklady RAN 2024 · AI exchange, Università di Bologna

skills

ml / cv	PyTorch, HuggingFace Transformers, CatBoost, scikit-learn
llm	RAG, FAISS, ChromaDB, OpenAI / OpenRouter / Ollama APIs, structured output
engineering	Python, FastAPI, React, Docker, CI/CD, MLflow, SQL, PySpark
languages	English C1 (IELTS 8.0) · German B2 · Russian native