

# Dmitry Ivanov

ML Engineer (MLOps) | Production ML pipelines · Kubernetes serving · LLM/RAG

Remote | Open to relocation

[damiyan.ivanov@gmail.com](mailto:damiyan.ivanov@gmail.com) | +375 (29) 155-69-01 | [portfolio.dmitryivanov.dev](https://portfolio.dmitryivanov.dev) | [linkedin.com/in/dmitry-ivanov-ds](https://linkedin.com/in/dmitry-ivanov-ds)

## Professional Summary

ML engineer focused on production: reproducible pipelines, leakage-safe evaluation, model serving, and observability. Delivered SoccerPredictAI — end-to-end MLOps platform (950K+ matches, DVC, MLflow, FastAPI + Celery on Kubernetes, <500ms p95); CAE Copilot — LLM/RAG copilot with mandatory citations and golden eval; Chemwatch OCR/NLP pipeline (95% manual reduction). Engineering background: 14+ years in simulation/HPC, leading a team of 10. Open to remote and relocation.

## Technical Skills

**Machine Learning:** Python, scikit-learn, XGBoost, Optuna, pandas, NumPy, Feature Engineering, Model Evaluation

**MLOps & Data:** MLflow, DVC, Great Expectations, Airflow, Evidently, PostgreSQL, MinIO, Parquet, Data Quality

**Deployment:** Docker, Kubernetes, Helm, FastAPI, Celery, RabbitMQ, GitLab CI/CD, SOPS, Age

**Applied AI:** LangGraph, RAG, LLM, Qdrant, Vector Search, Pydantic; Observability: Prometheus, Grafana

## Selected ML & AI Projects

**SoccerPredictAI — Production ML & MLOps Platform** May 2025 – May 2026

- Automated ingestion of 950,000+ matches across 26 years from 3 heterogeneous sources; DVC + Great Expectations data contracts.
- Leakage-safe walk-forward CV; MLflow registry, nested Optuna trials; holdout log-loss 1.006, ECE 0.004; 560+ automated tests.
- Serving on Kubernetes: FastAPI (sync, <500ms p95) + Celery/RabbitMQ (async batch); Prometheus, Grafana, Evidently drift monitoring.

**CAE Copilot — LLM/RAG Copilot for Engineering** May 2026 – Present

- LangGraph routing, Qdrant RAG with mandatory citations, Pydantic calculation tools; golden Q&A eval (14 cases, 100% offline accuracy).
- Production on Kubernetes (FastAPI + Streamlit, Helm); docs corpus of 9 manuals, page-aware chunks.

## Professional Experience

**Head of Simulation Modeling Bureau** — *Rostselmash, Rostov-on-Don, Russia* Dec 2021 – Present

- Scaled computational engineering team 2→10; standardized workflows, simulation model review, and Python data-processing automation (12× faster setup).
- Owned data-heavy validation: model predictions vs. field telemetry at <5% deviation — experiment design, acceptance criteria, calibration.

**Data Scientist** — *Chemwatch (Part-time / Freelance, Remote, Australia)* Jan 2021 – Jan 2022

- Built production OCR + multilingual NLP batch pipeline for 50,000+ MSDS documents across 12+ languages.
- Confidence scoring + human-in-the-loop CAS validation; 95% manual work reduction, 40% faster safety analysis.

**Lead CFD/DEM Engineer** — *Gomselmash, Gomel, Belarus* Aug 2012 – Dec 2021

- Built simulation (CFD/DEM) capability from zero; automation-heavy HPC workflows; published calibration methodology (CADFEM Review, 2020).

## Education

**MSc in Mechanical Engineering**, Gomel Technical University P.O. Suhogo, Belarus 2016–2018

**BSc in Mechanical Engineering**, Gomel Technical University P.O. Suhogo, Belarus 2007–2012

## Certifications & Courses

- LLM: From Understanding to Product — ODS.ai (2026)
- MLOps and Production in Data Science (2.0/3.0) — ODS.ai (2023/2024)
- Machine Learning and Data Analysis — Yandex / MIPT (2020)

## Languages

**English:** Professional Working Proficiency (B2). **Russian:** Native.