
Konovalov Igor

ML Engineer

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ABOUT ME

ML Engineer with experience developing **production systems** based on **LLM, RAG** and **Computer Vision**. I specialise in creating **AI agents** and scalable infrastructure for model interaction with the outside world (**MCP, tool-use**). I implement **end-to-end ML solutions** from R&D and **data pipeline design (Spark, Delta Lake)** to deploying innovative **MCP servers** and visual inspection systems.

EXPERIENCE

November 2025 - present **Neurostevye Technologies LLC - ML Engineer**

- Designed an **MCP server ecosystem (STDIO-HTTP)** for automatic interaction between LLM agents and the KB, FAQ, and file systems.
- Implemented a **tool-use infrastructure** and a **full-stack interface (React)** for managing collections, prompts, and data synchronisation.
- Modernised the insurance product recommendation system; automated inference, **reducing weekly issuance time by 60%**.
- Automated the **"Profiling"** project to generate client profiles and calculate business metrics (renewals, survival).
- Implemented vector search (**Qdrant**), developed a Telegram bot with KB integration, and configured CI/CD via **Jenkins**.
- Prepared technical reports for the **Skolkovo Foundation**, conducted competitor analysis, and supported the full cycle of project documentation.

November 2023 - November 2025 **Phystech College, Dolgoprudny - Teacher/Programmer**

- Developed and implemented a **RAG (QA) system based on LLM**, which **automated 70%** of admissions committee **responses**.
- Developed an educational infrastructure based on **Delta Lake** for teaching data science; developed a model for **summarising** problem domains.
- **Taught ML and Python**; trained winners (**8+ places**) of the "Professionals" and WorldSkills championships in ML, Big Data, and robotics using AI.

June 2023 - present **OOO «Stalspoddon» (wholesale) – Data Scientist**

- Developed an experimental system for counting products using **CV**
- Created an automated system for classifying letters (**NLP**), **integrated with 1C**, increasing the effectiveness of interaction with clients

August - November 2024 - **SAMOLET Group - Data Scientist**

- Conducted **labelling (CVAT)**, automation, preprocessing, and data analysis for **CV projects**
- Developed and trained **multi-label / binary classification models** based on **transformer architectures (BERT, RoBERTa, ...)** for NLP tasks (**NER, Summarisation, Classification**)

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- December 2022 - March 2023 **Project for the Government of the Moscow Region - ML Developer**
- **Led** the development and implementation of a **visual food quality control system** for schools (**OpenCV** and **YOLOv5**). The project completed the implementation phase.
- October 2021 - March 2022 - startup **Visible Speech - Interactive System Developer**
- Developed interactive **mini-games for speech development** with voice control in **Python (Arcade)**, training the pronunciation of sounds

EDUCATION

Phystech college, Dolgoprudny - Programmer
2020 - 2024 | 09.02.07 Information systems and programming

ACHIEVEMENTS

Prize winner of the Professionals and WorldSkills Championship (ML & Big Data, IoT)
Competitor in the Kaggle Samsung Challenge

TECHNOLOGY STACK

Programming languages: Python, SQL, 1C, JavaScript, React, TSX, TypeScript

Machine learning and artificial intelligence:

- **Agentic Workflows & LLM:** MCP(Model context Protocol), Function Calling, AI Agents, LangChain, LlamaIndex, RAG-systems, Fine-tuning (LLM, BERT, RoBERTa)
- **Deep Learning & NLP:** PyTorch, Keras, HuggingFace Transformers
- **Computer Vision:** OpenCV, YOLO (v5, v8, v11), Segmentation, SAM, Object Detection
- **Classic ML:** Scikit-learn, XGBoost, CatBoost, Pandas, NumPy, Optuna

Tools for working with data and Big Data:

- **DBMS & Vector DB :** PostgreSQL, MongoDB, ClickHouse, **Qdrant**
- **BIG Data Ecosystem:** Spark, HDFS, Delta Lake
- **Orchestration:** Airflow

Data Markup Tools: Labelbox, YOLO-annotation-tool, CVAT, LabelMe

Version control systems and CI/CD: Git, GitHub Actions, GitLab CI, DVC, Jenkins, Docker

Web frameworks: Flask, Streamlit, ReactAdmin, FastAPI

LANGUAGES

Russian (Native)
English (B2)

GUARANTORS

[Maxim Zaitsev](#) — Data Scientist (Go Predicts)

[Kusov Anatoly](#) — Lecturer of the first category, supervisor