

# Kopylov Aleksei


## TL;DR


Deep Learning Engineer proficient in various domains: Computer Vision, NLP, Tabular, Sound.

Specialise in the end-to-end development of ML systems, following to best MLOps practices. Led teams up to 4 developers.


**Bachelor of Computer Science** [ULSU](#)

## CONTACT

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 Tbilisi, Georgia

 Russian, English

## STACK



TensorFlow, PyTorch,  
HuggingFace, scikit-learn,  
Keras, Catboost, CUDA



pandas, numpy, asyncio,  
OpenCV, dask, FastAPI,  
geopandas, Label Studio, Plotly,  
dash



Docker, K8s, Dagster, Gitlab  
CI/CD, DVC, wandb, MLflow,  
SQL, Clickhouse, Postgres,  
DuckDB, Grafana, Git, Linux

## ML EXPERTISE

**Computer Vision:** Pose Estimation, Object Detection, Classification, Object Tracking, OCR, GAN, Segmentation, AR

**Text:** LLM, NER, Transformers, NLP

**Tabular:** Time Series Analysis, Recommendation Systems, Forecasting, Classification, Clustering

**Sound:** Speech to Text, Denoising

## CAREER [ 4 years of experience ]

### Head of Data Science at [Gurtam](#) [2022-2024]

**Spearheading team growth; recruiting, developing, and mentoring ML/DS specialists;** coordinating hardware infrastructure requirements; proactively identifying and leveraging new ML applications.

**Handling Big Data pipelines** - 4 million real objects with hundreds of features (**petabytes of data that constantly changing**).

Integrated **LLM** to streamline **Q&A on multimodal and dynamically evolving documentation**, reducing support department's workload.

Reduced client overwhelm through tailored **recommendation systems**, leading to a lesser load on the business development department.

Pioneered integration of **MLOps, CI/CD, DWH**, and **Data Marts** in the production environment that significantly reduced the time of task completions and made solutions robust.

Performed in-depth research and analysis of telematic data that enhanced data-driven business decisions.

### Machine Learning Engineer at [Zebrains](#) [2020-2022]

**Led the architectural design and strategic roadmap development for ML modules**, guiding projects from concept through to production.

**Led the development of an AR + ML application** for virtual fitting of rings and bracelets (**3D Hand Pose Estimation**), showcased at several exhibition.

**Led the development of a Speech Recognition system** for video calls

Developed a service for **extracting and processing complex multimodal data from documents (OCR, NLP, NER)**.

Engineered a solution for **Detecting and Tracking Cars** with **OCR**.

Introduced **MLOps** in production environment.

**Developed a Python framework** for synthetic image dataset generation, substantially enhancing ML model accuracy.

Developed a **Data Mart** for the management team, enhancing data analysis and reporting capabilities.

### University Lecturer (Machine Learning) at [ULSU](#) [2021-2022]

**Numerous of my pupils now excelling in the ML industry.**

**Developed and instructed a ML course**, with focus on hands-on exercises and production approaches.

**Managed ML internships;** judged ML Hackathon.