Georgios Terzoglou

Machine Learning Engineer
Computer Vision · NLP/RAG · MLOps

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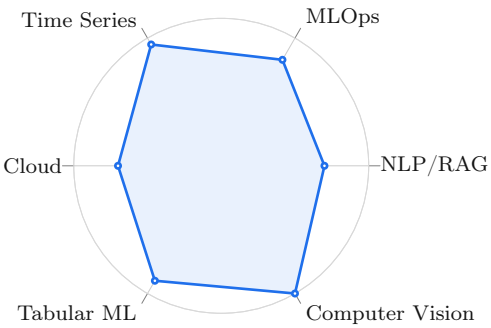
Technical Skills

PyTorch | FastAPI | Docker | MLflow | CI/CD | Databricks

- **Languages**: Python, SQL, JavaScript, React
- **ML/DL**: PyTorch, TensorFlow, scikit-learn
- **LLM/RAG**: LangChain, Hugging Face, OpenAI API
- **MLOps/CI-CD**: FastAPI, Docker, MLflow, Kubernetes, Git, GitHub Actions
- **Cloud**: Azure, Databricks



Education

Democritus University of Thrace
MSc, Electrical & Computer Engineering
Thesis: *CNNs for Autonomous Driving*

Publications

- **Terzoglou, G.** *et al.* "Employing DL for solar-panel defect detection with UAV imagery." In *DSP Conference, 2023*.
- **Terzoglou, G.** *et al.* "AI Services for Generating Customizable Game Assets." *IEEE Xplore, 2024*.
- **Terzoglou, G.** *et al.* "AI tools for generating Digital Heritage Twins enhancing storytelling in educational games." In *Digital Applications in Archaeology and Cultural Heritage*, 2025.

Summary

Machine Learning Engineer with 3+ years of experience delivering production-ready systems in **computer vision**, **NLP/RAG**, **time series**, and **tabular data**. Skilled in building end-to-end ML pipelines, deploying **Dockerized FastAPI** services, and driving **MLOps** with **MLflow** and **CI/CD on Azure**.

Work Experience

Quento 2025–Present
Machine Learning Engineer Greece

- **Built and maintained** production-grade ML pipelines.
- **Developed and deployed** robust RAG-based chatbots using vector databases, hybrid retrieval, guardrails, and FastAPI services optimized for latency and throughput.
- **Improved reliability & scalability** of ML systems through container orchestration, automated model versioning, and GPU-accelerated inference pipelines.

CERTH — Centre for Research & Technology Hellas 2022–2025
Machine Learning Engineer / Research Associate Greece

- **Designed & deployed** computer vision solutions for drone-based industrial inspection; increased accuracy by 25% and reduced manual inspection time by 40%.
- **Authored** IEEE publication; led dataset creation, modeling, experiments, and documentation.
- **Led** NLP/RAG initiatives with standardized pipelines, evaluation guardrails, and dashboards.
- **Delivered** on multiple EU-funded projects; coordinated research-to-production transitions.

Traffic Technique 2022–Present
Machine Learning Engineer (Part-time) Greece

- **Developed** vehicle re-identification pipeline; achieved >95% tracking continuity.
- **Built** LSTM/Transformer traffic-flow models; cut MAE by 12%.
- **Automated** retraining & monitoring workflows; scaled traffic control to 45+ intersections, enabling city-wide deployment.

Personal Projects

- **Volleyball Stats App**: React web app used by 4 second-league teams; integrates CV event-detection pipeline.