

Konstantinos Kotsaras

AI/ML Engineer · Technology & Cloud Solutions

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PROFILE

Informatics graduate (B.Sc., GPA 9.1/10, Excellent) and AI/ML engineer who pairs strong technical delivery with clear communication. Author of a **10/10 thesis** on multi-agent Retrieval-Augmented Generation. At Nokia, helped raise the team's regression pass rate from **8% to 94.8%**. Experienced across AI/ML, cloud-native delivery, international team projects (European Rover Challenge) and teaching, with C2 English. Seeking a role in **AI or technology consulting**, turning complex technology into measurable business value.

EDUCATION

B.Sc. in Informatics & Telematics

Sep 2022 – Jun 2026

Harokopio University of Athens (Athens, Greece)

- GPA: 9.1/10 (Excellent). Thesis grade: 10/10.
- Thesis: “*Development of a Multi-Agent System for Efficient Retrieval-Augmented Generation in Generative AI Systems*”, built on LangGraph and the Model Context Protocol (MCP).

Erasmus+ Exchange, Computer Science

Sep 2024 – Mar 2025

AGH University of Krakow (Krakow, Poland)

- Semester abroad, grade 5/5. Coursework in mobile software engineering, distributed systems and telecommunications.

WORK EXPERIENCE

Software Test Automation Engineer

Jul 2025 – Jul 2026

Nokia (Athens, Greece)

- Helped raise the team's regression pass rate from **8% to 94.8%** through suite maintenance and new test-case development.
- Built and maintained automated test suites for telecommunications software using Robot Framework and Python.
- Integrated automated tests into CI/CD pipelines (Jenkins, GitLab CI) for continuous build, test and deployment.
- Validated cloud-native services (Zero Touch Services, ZTS) on Docker and Kubernetes, using Helm for deployment and configuration of pods.

Space Robotics Team Member

Apr 2023 – Oct 2023

Hive Robotics, Harokopio University · European Rover Challenge 2023 (Remote)

- Served as Marketing & Project Management Specialist within an international team, completing the ERC Space & Robotics Industry Standard Practice Programme.
- Represented Harokopio University at the international European Rover Challenge 2023, qualifying for the world finals.
- Contributed to the technical delivery, programming rover task automation in Python.

Private Tutor (Mathematics & Computer Science)

Jul 2023 – Jun 2025

Freelance (Athens, Greece)

- Explained complex mathematical and computing concepts with clarity, guiding high-school students to strong results in the national university entrance exams.

SKILLS

- **Programming:** Python, JavaScript, Java, SQL, Bash
- **AI / Machine Learning:** PyTorch, NumPy, Deep Learning, Neural Networks, Computer Vision, Transformers, RAG, LLMs, Multi-Agent Systems
- **DevOps & Cloud:** Docker, Kubernetes, Helm, CI/CD, Jenkins, GitLab CI, Ansible, Linux, Firebase, Vercel

- **QA & Testing:** Robot Framework, Test Automation, REST API Testing, Quality Assurance
- **Web & Data:** HTML, CSS, REST APIs, MySQL / MariaDB, Git

SELECTED PROJECTS

- **multi-agent-mcp** · Multi-agent RAG system over the Model Context Protocol (DAG planning, ReAct execution, auto-replanning), benchmarked on MCP-Bench. *Thesis codebase*. github.com/kotsarakos/multi-agent-mcp
- **computer-vision-pytorch** · Image classification, transfer learning, semantic segmentation and CNN vs. Transformer benchmarking with PyTorch. github.com/kotsarakos/computer-vision-pytorch
- **ml-neural-networks** · Neural network implemented from scratch in NumPy and compared against a PyTorch implementation across multiple datasets. github.com/kotsarakos/ml-neural-networks

CERTIFICATIONS

- Microsoft Azure AI Essentials · Microsoft & LinkedIn (2025)
- Certificate of Proficiency in English (ECPE), Level C2 · University of Michigan (2024)
- Kubernetes: Package Management with Helm (2025)
- LLM Foundations: Vector Databases for Caching & Retrieval-Augmented Generation · LinkedIn (2025)

LANGUAGES

- **Greek:** Native
- **English:** Full professional / C2 (ECPE)