

# Luca DI VITA



## PROFILE

**Machine Learning Engineer** with a degree in Computer Engineering and solid experience in **Python** development and the design of **Machine Learning** solutions, with a background in **software engineering**. Curious and research-oriented, I cultivate a strong personal interest in **evolutionary computation** and experimental approaches to artificial intelligence. Actively involved in tech communities, I am an organizer of GDG Pescara and co-founder of Python Pescara, where I deliver technical talks and contribute to training and knowledge-sharing initiatives. I believe in the value of open collaboration and strive to make complex topics accessible through clear and engaging content.

## CONTACTS

@ lucadivita.ldv@gmail.com  
🌐 lucadivita.it  
✉ Via Alessandro Manzoni 6, Cappelletto  
Sul Tavo (PE), Italy

## PERSONAL INFORMATION

Citizenship: **Italian**  
Languages: **Italian** (native),  
**English** (B2)

## SKILLS

- Python, SQL (ML & Data: scikit-learn, PyTorch, Keras, Pandas, NumPy, ...)
- Backend: Flask, FastAPI
- Tools: Docker, Git
- Soft skills: communication, teamwork

## EXPERIENCE

**MACHINE LEARNING ENGINEER** at *Cy4Gate (ELT Group)* **2023.11–present**  
◊ Initially as a consultant through Frontiere (2023.11–2024.08), then internalised (2024.09–present). Development of Machine Learning models for RTA SIEM and design of Docker-based microservices for near real-time anomaly detection.

**LECTURER (FREELANCE)** at *ITS Lanciano* **2024.04–2024.06**  
◊ Teaching object-oriented programming in Python.

**MACHINE LEARNING ENGINEER** at *Frontiere* **2023.03–2023.11**  
◊ Development of ML services including: PadelCam (human-five detection on Raspberry Pi), automatic email classification and OCR/NLP microservices.

**MACHINE LEARNING ENGINEER (FREELANCE)** at *20Tab* **2023.08–present**  
◊ Development of the *CONNECT* service based on transformers and vector databases for scientific paper similarity and attention-based explainability. Development of recognition models for the *AUTOMA* project by the CNR, aimed at identifying alien species in Italian seas.

**MACHINE LEARNING ENGINEER** at *Aesys* **2019.11–2023.03**  
◊ Projects for Generali Assicurazioni (OCR, document classification, Vision/Textextract), Levis (B2C sellout forecasting) and Digital Soft (predictive maintenance and demand forecasting). Development of on-premise ML services based on Python, Docker and NLP (SpaCy).

**RESEARCH FELLOW** at *University of L'Aquila* **2019.04–2019.11**  
◊ Deep Reinforcement Learning applied to Cyber Security using Mininet simulations and malware analysis from .pcap files.

## EDUCATION

**MASTER'S DEGREE IN COMPUTER ENGINEERING (110/110)** *University of L'Aquila*. **2016–2018**  
◊ Thesis: *Deep Reinforcement Learning applied to Cyber Security*.  
◊ Main study areas: software engineering, algorithms and data structures, advanced databases, machine learning.

## PUBLICATIONS & TALKS

**MTA-KDD'19: A DATASET FOR MALWARE TRAFFIC DETECTION** *CEUR-WS* **2020**  
◊ Updated dataset for malware traffic analysis, built through collection, cleaning and preprocessing of large volumes of network traffic to train machine learning models.

**A SPHERICAL DIRECTIONAL ANEMOMETER SENSOR SYSTEM** *MDPI* **2017**  
◊ Proposal and analysis of a compact directional anemometer without mechanical moving parts, based on differential pressure measurements using inductive transducers.

*Technical articles and blog content available at:*  
lucadivita.it

*The full list of my talks is available at:*  
sessionize.com/lucadivita

## HOBBIES

*Training and running:* gym workouts and running as part of my wellness routine.

*Reading:* passionate reader of both technical-scientific texts and narrative literature.

*Tech communities:* active participation in events, organisation of initiatives and technical talks.

*Blog:* writing technical and educational articles.

*Gaming:* gaming in my free time.

*Studying:* continuous in-depth learning through books and specialist materials.