

# 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, Cappelle 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 2oTab 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/Texttract), 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](http://lucadivita.it)

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