Leonardo Chiarioni

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Education

Artificial Intelligence @ Università di Bologna *Sept 2023 – current*
MS in Computer Engineering

- **Program overview:** Symbolic AI, Mathematical Methods for AI, Machine and Deep Learning, Combinatorial Optimization, Computer Vision, Natural Language Processing.
- **Personal Specialization:** AI for Industry, Internet of Things, Reinforcement Learning, Machine Learning for Computer Vision, AI Agents.

Electronics Engineering @ Università degli Studi di Perugia *Sept 2018 – April 2022*
BS in Electronics Engineering, 110 cum laude

Publication: Transmission and reception of chirp signals through low-cost microcontrollers and inductive coupling. Supervisor: Antonio Moschitta.

Experience

IoT Consultant *Roma, IT*
Sense Reply *June 2022 – Sept 2023*

- Supporting and mantaining an IoT platform for monitoring high-voltage power pylons for Terna customer.
- Addressing Galp Energia's need of integrating IoT in their power plants by designing an High-Level IoT Platform.

(Some) Projects

Sexism Detection in Tweets

- Developed an algorithm to detect sexism inside tweets using RNNs, Transformers and Prompting techniques.
- Technologies: RNNs, Transformers, In-context Learning, Zero/Few-shot Learning

(Multi)-Instance Level Object Detection

- Developed an algorithm able to identify reference products on target images and estimate their position in the image
- Technologies: Non-linear Filtering, SIFT, Template matching

Multiple Couriers Planning

- Built an algorithm able to find couriers' optimal routes for package delivering.
- Technologies: Constraing Programming, SAT, SMT, Mixed Integer Linear Programming, Docker

IT Skills

Languages: Python, C, Java, Html, Css, Minizinc, Prolog, LaTeX

Technologies: Tensorflow, Keras, Pytorch, HuggingFace, Pandas, Numpy, MongoDB, Docker, Git

Soft Skills

Organized and detail-oriented: I manage tasks precisely, ensuring structure and coherence in my work.

Client Interaction: I have experience in communicating with clients, understanding and addressing their needs.

Team working: I find exciting working in collaborative settings, sharing knowledge and learning from others to enhance and pursue the solution to be delivered.

Adaptability and problem-solving: I enjoy tackling challenges with a logical and analytical mindset, with all the difficulties that can arise. I owe this to the heterogeneous background i have.

Languages: Italian (native), English (C1, advanced)