

# Nicolo' Pedrani

Specialist Consultant R&D Engineer

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in nicolo-pedrani



## Working Experiences

present **R&D System Engineer**, *Leonardo Spa*, Milan, Italy

- Development of real-time computer vision algorithms for threats detection and declaration
- Analysis of stakeholder needs and system requirements, System design of Infra-Red (IR) sensor systems
- Technical interface for clients to define requirements and organize NATO acquisition trials

**Skills & Tools:** Matlab, Simulink, C++, Infra-Red Systems, Computer Vision, Signal Processing, System Design

present **Data Assistant**, *EOC (IOSI) - Prostate Cancer Group*, Lugano, Switzerland, part-time

Database cleaning and development of interactive dashboards for data entry and visualization of statistical analyses.

**Skills & Tools:** Python, JavaScript, SQL, Vercel, Data Cleaning, Data Visualization

2022- **Data Scientist**, *Deloitte Consulting*, Milan, Italy

2023 ○ Development of machine learning algorithms to solve business problems (e.g., NPS forecasting, customer segmentation, recommendation systems, supply chain forecasting)

○ End-to-end project management: from requirement definition to model deployment and maintenance

○ Creation of interactive BI dashboards to support data-driven decisions across different business domains

**Skills & Tools:** Python, SQL, Power BI, Azure Machine Learning, Machine Learning Algorithms, Forecasting, Classification

## Education

○ **M.Sc. in Physics**

2019-2021 Unimi, Milan, Italy

Grade: 110/110 cum laude

○ **B.Sc. in Physics**

2015-2018 Unimi, Milan, Italy

Grade: 110/110 cum laude

○ **Phd Candidate**

2021-2022 Italian Institute of Technology, Genova, Italy

## Courses

**MathWorks Computer Vision Engineer**

**Skills:** Image Segmentation, Image Processing, Object Detection, Deep Learning, MATLAB, Image Classification

**IBM AI Engineering**

**Skills:** Data Science, Python, Pytorch, Tensorflow, LLMs, Predictive Modeling, Exploratory Data Analysis (EDA), Regression Models

## Languages

○ **Italian** Native

○ **English** Proficient

## Publications

*OxDNA to Study Species Interactions* Entropy (2022), 24(4), 458 <https://doi.org/10.3390/e24040458>

*Dynamical stochastic simulation of complex electrical behavior in neuromorphic networks of metallic nano-junctions*, Scientific Reports volume **12**, Article number: 12234 (2022) <https://doi.org/10.1038/s41598-022-15996-9>

## Additional Experiences

○ **University Tutor** Camplus College

○ **Football Coach** School Of Sport

○ **Scientific Labs Tour Guide** FLABS

○ **High School Teacher** Scuola Sacro Cuore

## Volunteering & Passions

○ **Volunteer Teacher**

Portofranco

○ **Volunteer Companion**

Alecrim

○ **Travelling | Sports | Reading**