

Nicolo' Pedrani

Specialist Consultant R&D Engineer

+393318555226
pedranin@gmail.com
nicolopedrani.github.io/
in nicolo-pedrani



Working Experiences

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

- Development of real-time computer vision algorithms
- Analysis of stakeholder needs and system requirements
- System design of Infra-Red (IR) sensor systems

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

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

Google Project Management

Skills: Risk Management, Project Management, Business Communication, Leadership and Management, Change Management, Planning, Collaboration

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** Campluss 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**