

# Nicolo' Pedrani

Specialist Consultant R&D Engineer

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## Summary

Data science and R&D engineer with 2 years' experience, specializing in machine learning and analytics. Key achievements include leading digital transformation at Deloitte Consulting and embedding ML algorithms in Aerospace and Defense (A&D) at Leonardo Spa

## Working Experiences

present **Specialist Consultant R&D Engineer**, *Teoresi Spa / Leonardo Spa*, Milan, Italy

A&D specialist consultant collaborating with system engineers to embed machine learning algorithms

- Simulated real-world scenarios to test performance of diverse algorithms and systems, reducing preliminary testing time by 35%
- Integrated machine learning algorithms into complex electronic systems for A&D applications, enhancing system efficiency by 25%
- Facilitating the collection and analysis of customer requirements to ensure alignment with project objectives.

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

2023 Support digital transformation by designing advanced data analytics tools across the Energy, Retail, and Fashion industries

- Improved customer NPS forecasting accuracy by 25% through the development of advanced machine learning algorithms
- Increased marketing campaign efficiency by 30% by creating ML models for customer segmentation based on their propensity to buy, leading to an average of 10% rise in conversion rates
- Developed 5 dashboards in PowerBI to display relevant data and statistics about the customer base for clients enhancing decision-making processes

## Education

### ○ Ph.D. in Materials Science

2021-2022 Italian Institute of Tecnology,  
Genova, Italy  
supervisor Prof. Michele Parrinello

### ○ M.Sc. in Physics

2019-2021 Università degli Studi di Mi-  
lano, Milan, Italy  
Grade: 110/110 cum laude

### ○ B.Sc. in Physics

2015-2018 Università degli Studi di Mi-  
lano, Milan, Italy  
Grade: 110/110 cum laude

## Skills

Machine Learning, Data Science & Analytics, Python, Data Visualization, Excel, Power Point, git, SQL, Mathematica, Matlab, C++, Client Management, Problem-Solving, Requirements Gathering, Statistical Physics, Numerical Simulations

## Languages

- **Italian** Native
- **English** Proficient

## Courses

- **McKinsey Forward Program**
- **Google Project Management**
- **BCG Introduction to Strategy Consulting**
- **Google Advanced Data Analytics**
- **Machine Learning Coursera**

## 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 nanojunctions*, Scientific Reports volume **12**, Article number: 12234 (2022) <https://doi.org/10.1038/s41598-022-15996-9>

## Additional Experiences

- **University Tutor** Camplus College
- **Scientific Labs Tour Guide** FLABS
- **Football Coach** School Of Sport
- **High School Teacher** Scuola Sacro Cuore

## Volunteering & Passions

- **Volunteer Teacher** Portofranco
- **Volunteer Companion** Alecrim
- **Travelling | Sports | Reading**