

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 at Leonardo Spa

Working Experiences

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

Aerospace and Defence specialist consultant collaborating with system engineers to embed machine learning algorithms.

- Simulating real-world scenarios to test the performance of various algorithms and systems.
- Embedding machine learning algorithms into complex electronic systems for aerospace and defense applications.
- 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.

- Developing machine learning algorithms to help customers forecast Net Promoter Score (NPS) values and supply demand.
- Creating ML models for customer segmentation based on their propensity to buy, optimizing marketing campaigns.
- Developing dashboards in PowerBI to display relevant data and statistics about the customer base for clients.

Education

○ Ph.D. in Materials Science

2020-2022 Italian Institute of Technology, Genova, Italy
supervisor Prof. Michele Parrinello

○ M.Sc. in Physics

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

○ B.Sc. in Physics

2015-2018 Università degli Studi di Milano, 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 Advanced Data Analytics**
- **Google Project Management**
- **Machine Learning**
- **BCG Introduction to Strategy Consulting**

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
- **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**