









LEONARDO PACCIANI-MORI

DATA SCIENTIST / DATA ANALYST

CONTACT INFO

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CODING SKILLS

Python	SQL	noSQL	C++
Linux and shell scripting	Mathematica	R	

PROFESSIONAL SKILLS

Data analysis & visualization
Data pipeline development (ETL)
Data workflow automation
Task dependency management
Mathematical modeling
Machine Learning models development
Deep Learning/AI model development (VAEs, GANs)
Web scraping & data mining
Dashboard creation
Database management & administration
Data warehousing
Use of version control systems
Use of Big Data frameworks

SOFT SKILLS

Project management
Teamworking
Communication & public speaking
Organizational skills

PYTHON TOOLBOX

numpy scipy pandas statmodels matplotlib
seaborn scikit-learn tensorflow/keras airflow
beautifulsoup sqlite3 sqlalchemy pymongo

DATA TOOLBOX

MS Excel, Word and PowerPoint Git and GitHub
MySQL PostgreSQL Hadoop Spark MongoDB
Apache Airflow Tableau Jupyter REST APIs

CERTIFICATES

[IBM Data Engineering Professional Certificate](#)
[IBM Data Analyst Professional Certificate](#)
[IBM Machine Learning Professional Certificate](#)
[IBM Data Science Professional Certificate](#)

ABOUT ME

After acquiring a solid data analysis experience in academia, I am looking for an opportunity as a Data Analyst / Data Scientist in a dynamic team where I can contribute with my skills and competences in data analysis and machine learning to support strategic decisions by providing actionable, business-driven data insights and contribute to the success of a company. Thanks to my past experiences and my independent projects, I developed a strong attention to details and problem-solving abilities, which I want to apply in a practical, result-oriented business context.

DATA SCIENCE/ANALYSIS PROJECTS

I have designed and developed the following projects independently as part of my portfolio. Here is just a short summary of each project, more details can be found on my website (leonardo.pm).

Data analysis for Real Estate investors - [Link](#)

- Full lifecycle project management and data analysis: from requirements collection and understanding to design, implementation, monitoring and deployment
- Raw data scraping from Italy's biggest online real estate marketplace (Python, Airflow)
- Data storage in non-relational (MongoDB) and relational (PostgreSQL) databases
- Data cleaning & processing through ETL pipelines (Python, Airflow)
- Development of custom synthetic data creation algorithm (KNN-based; Python, Jupyter)
- Development and training of Machine Learning models for prediction (Python, scikit-learn)
- Statistical data analysis (Python, Jupyter) & visualization with dashboards (Tableau)

Generative AI for images - [Link](#)

- Development of Deep Learning models (VAEs, GANs) for image classification & generation (Python, Tensorflow, Jupyter)
- Model performance evaluation, monitoring & optimization for image generation (Python, Tensorflow, Jupyter)

PROFESSIONAL EXPERIENCE

University of California, San Diego - *Researcher & Data Analyst*

March 2021 — March 2025

I contributed significantly to my group's research portfolio, working on biological physics, bacterial physiology and ecology.

Main duties and responsibilities:

- Data-driven experiment design
- Lab data collection (HPLC, plate reader)
- Quantitative data analysis (Python, Jupyter; numpy, pandas, matplotlib)
- Mathematical modeling of lab data (statistical fits with scipy)
- Development of Machine Learning algorithm for biological data (clustering algorithms)
- Data reporting
- Presentation of research results at international conferences with multiple stakeholders

Harvard University - *Researcher*

Apr — Oct 2019

During my PhD, I have spent 6 months as a visiting graduate student, working at the interface of bacterial physiology and ecology.

Main duties and responsibilities:

- Data-driven experiment design
- Lab data collection (flow cytometer) & analysis (Python, Jupyter; numpy, scipy, pandas, matplotlib)
- Mathematical modeling of lab data (descriptive statistics and regression analysis with scipy)
- Data reporting

EDUCATION

University of Padua (Italy) Oct 2017 - Dec 2020

Ph.D. in Physics

Thesis title: *Two improved approaches to the study of competition in microbial communities*

University of Padua (Italy) Oct 2015 - Sep 2017

M.Sc. in Physics

University of Padua (Italy) Oct 2012 - Jul 2015

B.Sc. in Physics

LANGUAGES

Italian - Native

English - Fluent

Spanish - Fluent

Japanese - Beginner