




Lorenzo Lazzari


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Gender: Male

CONTACT

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 [https://llazzar.github.io/
datascience-portfolio/](https://llazzar.github.io/datascience-portfolio/)

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ABOUT ME

MSc in Statistics and Bachelor's in Economics with 2+ years of experience in data science, machine learning, and AI. Skilled in Python programming and developing data-driven solutions to extract insights, optimize processes, and build AI-powered systems. Passionate about leveraging technology to drive impactful results.

WORK EXPERIENCE

CURRENT Barcelona, Spain

Mid-level Scientist (Data) Ecovadis

01/2024 – 02/2025 Barcelona, Spain

Junior Scientist (Data) Ecovadis

- Developing and maintaining **AI-driven Information Retrieval (NLP) services** to **assist 200+ sustainability analysts** find relevant information in CSR documents.
- **Engaging horizontally with developer teams** to align on technically on implementation, while **collaborating vertically with stakeholders** to ensure objectives and requirements are met.
- **Optimizing document processing solutions** by integrating state-of-the-art closed & open-source LLMs (OpenAI, Meta), including deployment, prompt engineering, and fine-tuning (poster presented at CLIN 2024).
- **Enhancing search and retrieval systems** using Elasticsearch indexing and keyword-based retrieval techniques.
- **Building scalable applications** with Azure Functions, FastAPI, and Streamlit.

07/2023 – 01/2024 Barcelona, Spain

Trainee (Data) Ecovadis

- **Developing and maintaining Python scripts and data transformation pipelines** to supply the business with requested data loads for analytics, supporting department-wide data needs, **engaging with direct stakeholders to align on requirements and managing expectations**.
- Engaging daily with the company's data systems, ranging from **SQL Server** databases to **Databricks** environments and internal team storage accounts.
- Operating within the AI team, in the **Azure DevOps** environment, and adhering to **Agile Scrum** methodologies.
- Implementing **best practices** to ensure code modularity, maintainability, and reproducibility, including Git, Conda, Functional & OOP programming, PEP 8 adherence, static code analysis tools (PyLint, isort, black, Ruff), pre-commit hooks, MLflow for experiment tracking, and utilizing the WSL environment.
- **Applying machine learning techniques** to address business challenges.

PROJECTS

Portfolio

↓ Github pasges hosted portfolio with some projects:

Link bit.ly/43zi0FA

2024

Case Study: Leveraging Large Language Models in a Hybrid Search System for Improved CSR Information Retrieval

Poster presentation (Industrial Track) at the **34th Meeting of Computational Linguistics in The Netherlands** (CLIN 2024) showcasing an IR solution designed to assist sustainability analysts in retrieving CSR-related information from multilingual company documents. The approach combines traditional search engines with LLM-based reranking, exploring **GPT-4o prompt engineering** and **fine-tuning LLaMA3-8B**, delivering performance on par with larger, resource-intensive models.

Link <https://bit.ly/3TCINj0>

2023

Master's Thesis

Graphical techniques aimed at better **understanding the performance of supervised learning algorithms**, with an example in gene-expression based cancer classifiers that use RNA-seq and microarray data. Explored R-package developing and released a complementary package in the repo at the link below.

Link bit.ly/3MOQj4N

DIGITAL SKILLS

Python | SQL | Azure | DevOps | MLOps | LLMs | Cloud | APIs

EDUCATION AND TRAINING

2018 – 2021 Bologna, Italy

Bachelor Degree in Economics University of Bologna

Final grade 110/110 and honours

2021

IELTS Academic Certification British Council

Final grade Overall Band Score: 7.5 CEFR level: C1 | **Valid until** 2023

Link bit.ly/3lukoWw

2021 – 2023 Bologna, Italy

Master Degree in Statistical Sciences University of Bologna

Curriculum with focus on Data Science.

All exams and grades available at the link below

Final grade 110/110 and honours

Link bit.ly/3Un412j

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S): English at level C1 | Spanish at level B2

HOBBIES AND INTERESTS

extras

- Reading
- Singing & Playing guitar
- Motor-boat sailing
- Wellbeing & Physical Performance