

Valerio Valente

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Data Scientist (InSilicoTrials Technologies SpA)

April 2024 – current

Current responsibilities:

- Utilized the Azure Machine Learning suite to deploy and monitor machine learning models (**MLOps**), ensuring reliable performance in a production environment
- Crafted ML models (**Random Forests**, **Transformers**, ...) for business needs. These models have been extensively used allowing R&D personnel to avoid repetitive manual tasks
- **Co-led 4 technical and behavioral interviews**, contributing to the successful hiring of 2 key team members through tailored questions and detailed evaluation reports
- **Created complex SQL queries** to investigate and analyze drug interactions on patients, leading to significant insights about critical drug-drug interactions

Data Scientist (Miraitek srl)

September 2023 – April 2024

As a Junior Data Scientist at Miraitek, I worked mostly on the following projects for different clients

1. Manufacturing Client:
 - Exploited Python to develop algorithms for pattern recognition identifying delays in client's assembly line. **Helped to identify > 7% of the total delays** that were undetected.
 - Created an agent with the AWS suite. The agent had several components and encompassed a **LLM** to read implant documentation and retrieve useful insights (**RAG**) from both our APIs and the documentation itself
2. Sportswear Client (Swimsuit Production):
 - Leveraging **BI tools (Apache Superset)**, to visualize and communicate data trends.
 - Executing **SQL queries** to extract relevant information from the database.

Achievements

- **Finalist of HUAWEI Seeds For the Future program** November 2021

The program consists of webinars on technology, leadership, entrepreneurship, and Chinese culture, at the end of which a Tech4Good project must be developed. **Only 50 students per country are selected** and split in teams of 5. My team and I were **the only 5 Italians out of 50** who gained the access to the final. My role in the competition was:

- Develop the mock-up of our application exploiting UX/UI methodologies.
- Develop the business plan investigating budget, competitors, and investors.

- **Certifications available on my [LinkedIn](#) profile (all related to ML and Data Science)**

Education

Master of Science in Engineering in Computer Science (Sapienza University)

January 2023

Major: Computer Science | Minor: Data Science & Machine Learning

Research Thesis Project: "NLP For Integrity on Social Platforms" – the project was aided by an **ex-Meta researcher**. To achieve this, I:

- Had my hands on a cutting-edge research topic and advanced architectures (meta-learning and transformers)
- Employed research papers' techniques like the Attention Mechanism.

This allowed me to obtain a **higher accuracy (+ 15%)** with respect to a traditional approach not involving meta-learning (accuracy around 60%). The whole project is available on my [website](#).

