

Valerio Valente

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Junior 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

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

1. Manufacturing Client:
 - I analyzed data collected from implants to identify areas for improvement in machinery. Helped to identify > 7% of the total delays that were undetected.
 - Exploited Python to develop algorithms for pattern recognition identifying potential threats related to delays in client's assembly line
 - 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](#).

