Valerio Valente

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Junior Data Scientist (InSilicoTrials Technologies SpA)   **April 2024 – current**

My current role involves:

- Uploading ML models in production (MLOps) with Azure suite
- Defining algorithms for business needs like ML models for predicting clinical trials admission criteria

Junior Data Scientist (Miraitek s.r.l.)   **September 2023 – March 2024**

As a Junior Data Scientist at Miraitek, 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 undedected.
    - 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.

Bachelor of Science in Software Engineering (Roma Tre University)   **December 2019**

Major: Engineering | Minor: Computer Science