

Valerio Valente

Data Scientist - AI Engineer

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TLDR: Data Scientist and AI Engineer with more than two years of experience designing and deploying LLM based solutions in pharma and manufacturing. Specialized in NLP, multi agent systems, RAG, and MLOps pipelines using Python, Azure and modern ML and AI frameworks. Proven track record in building GenAI applications, supporting developer workflows, and conducting technical interviews. EU citizen, open to relocation.

Data Scientist (InSilicoTrials Technologies SpA)

April 2024 – current

- Designed, developed and maintained the company chatbot, a **multi agent system with a Model Context Protocol (MCP)** server.
- Contributed to the open-source AI project `mcpadapt`** on GitHub, strengthening knowledge of advanced Python patterns and aligning with industry standards.
- Delivered a complete workflow in PyTorch for **tabular synthetic data generation**, including an ML based solution for missing value imputation using Scikit Learn.
- Recognized as a **top 5 performer in a FDA's challenge** for developing a **regulatory compliant RAG model**, including creation of custom **benchmarks for performance evaluation**.
- Built and deployed **LLM pipelines on Azure in research-oriented environments focused on reproducibility**.
- Collaborated in an agile, cross functional, international team where clear non-technical communication was essential.
- Collaborated to projects both as a team member and as a lead, mentored peers and **conducted technical interviews**.

Junior Data Scientist (Miraitek srl)

September 2023 – April 2024

- Developed a RAG-based retrieval agent on AWS to **automate document analysis workflows**.
- Proactively identified inefficiencies in manufacturing (**7% improvement**) via pattern recognition.
- Delivered BI dashboards using Apache Superset and SQL, driving operational efficiency for clients.

Education

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

January 2023

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

- Thesis: *NLP for Integrity on Social Platforms* (collaboration with **ex-Meta researcher**).
- Achieved +15% accuracy improvement using meta-learning techniques over traditional approaches.

Bachelor of Science in Software Engineering (Roma Tre University)

December 2019

Major: Engineering | Minor: Computer Science

Achievements & Certifications

- Finalist of HUAWEI Seeds For the Future program** November 2021
 - Collaborated in a cross-functional team of 5, representing Italy in the global Tech4Good final.
 - Developed a comprehensive business plan with a focus on tech innovation, budget analysis, and investor engagement.

- Certifications available on my [LinkedIn](#) profile (all related to ML, MLOps and AI).