

# Valerio Valente

Data Scientist - AI Engineer

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**TLDR:** Data Scientist & AI Engineer with 2 years of experience designing and deploying LLM-based solutions in pharma and manufacturing. Specialized in NLP, multi-agent systems, RAG, and MLOps pipelines. Proven track record in building GenAI applications, supporting developer workflows, and led technical interviews. EU citizen – open to relocation.

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## Data Scientist (InSilicoTrials Technologies SpA)

April 2024 – current

- Designed and deployed LLM-based applications, including a multi-agent system with a Model Context Protocol (MCP) server.
- Contributed to the open-source project [mcpadapt](#) on GitHub, strengthening developer tooling and aligning with industry standards.
- Recognized as a top 5 performer (Low Code Tier) in a [FDA's challenge](#), representing InSilicoTrials and demonstrating excellence in deploying AI solutions under regulatory standards.
- Built and deployed LLMOps pipelines enabling GenAI for tasks like optimization-by-prompting (OPRO), document parsing, and code generation.
- Collaborated in an agile environment, mentoring peers and conducting technical interviews.

## 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 advanced pattern recognition.
- Delivered BI dashboards using Apache Superset and SQL, driving operational efficiency for clients.

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## 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

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## 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 and Data Science).**