

Andrea Amedeo Serravalle

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Summary

Adaptable, Dedicated and Results-Driven Learner and Tech Professional with deep expertise in Data, Machine Learning, and AI Systems. Passionate about leveraging Gamification to transform online education, I design and implement innovative End-to-End ML and AI Solutions using Python and robust System Design. Committed to continuous, hands-on learning and a forward-thinking approach to modern pedagogies, I excel in collaborative environments that push the boundaries of technological innovation.

Education

Open Institute of Technology, BSc in Computer Science *September 2024 - August 2026*

- Currently enrolled in a BSc in Computer Science, Majoring (Specialization Path) in Data Science, ML, and AI.
Expected Date Graduation: August 2026; Current GPA: 4.30 (100%).

I.T.I.S. Italo Calvino, High School Diploma in IT and Industrial Automation *September 2009 - July 2014*

- Italian High School Diploma in Information Technologies and Industrial Automation.

Extensive Individual Coursework

September 2014 - Ongoing

- With a pragmatic view on modern education and a strong commitment to lifelong learning, I am driven to continuously grow and explore in the Tech landscape. Pursued and achieved many different Professional Certifications across multiple MOOC platforms.

Work Experience

ML Engineer for Quantitative Analysis *January 2018 - July 2024*

Freelance, Remote, Worldwide

- Offered consultancies in technological infrastructures for Algorithmic Trading and Developed End-to-End Systems to analyze market data, detect patterns and automate trade execution, which led to an average +30% Improvement in Trade Execution Efficiency.
- Guided small and medium firms through the implementation of Data Strategies (DataOps) from Data Sourcing to Model Deployment.

Import/Export Agent *November 2017 - December 2017*

Bijoux Bergamo, On Site, Multiple Locations - China

- Coordinated and managed import-export operations between chinese suppliers and the headquarter.
- Conducted market research to identify potential suppliers in China, evaluated their products, negotiated contracts, and established relationships to secure reliable sources for clients and provide insights to clients.

Technical Support Specialist *January 2017 - October 2017*

Teleperformance Portugal, On Site, Lisbon - Portugal

- Connected with multiple engineering teams to acquire in-depth knowledge of the products and services offered by the company to provide accurate information and assistance to customers.

Warehouse Worker *January 2015 - December 2016*

Bijoux Bergamo, On Site, Bergamo - Italy

- Conducted inventory management to ensure product availability and applied effective sales strategies to promote and sell products to customers.

Skills

Technical Skills

- Programming Languages:** Python, SQL, Bash, Markups.
- Data Science, Machine Learning, AI:** NLP, LLM, AI Agents, Model Development & Deployment, Computer Vision, Reinforcement Learning.
- Data Engineering and MLOps:** ML System Design, End-to-End ML Pipelines, Feature Stores, Model Registries, DataOps, GitOps (DevOps), Apache Kafka, Apache Airflow.
- Tools and Frameworks:** AI Frameworks, Tensorflow, PyTorch, Scikit-Learn, Among the Others.
- Version Control:** Git, GitHub, Poetry, Python-Venv.
- Cloud & MicroServices:** Docker, Kubernetes, AWS, Github Actions, Among the Others.
- Operating Systems:** Windows, Linux (CLI, Bash Scripting, SysAdmin)
- Databases:** SQL (PostgreSQL, MySQL, MariaDB), In Memory (SQLite), NoSQL (MongoDB).

Languages

- Italian - Native Proficiency
- English - Advanced Professional, C1 Level

Honors and Additional Informations

- Awarded Two Generous Tuition Scholarship for Merits Covering Most Academic Expenses** *July 2024, December 2024*
- Proud Member of the Coursera Beta-Tester Community**