ANDREA BELLI CONTARINI

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SKILLS

- **Languages**: Italian (Native), English (Fluent), Spanish (Advanced), French (Basic)
- **Programming Languages**: Python, C, C++, HTML, SAS.
- **Frameworks**: PyTorch, TensorFlow, LangChain, Scikit-Learn, OpenCV, Pandas, NumPy, Pydantic-AI.
- **Technologies**: Machine Learning, Computer Vision, Statistical Modeling.
- **Tools & Platforms**: Jupyter, Google Colab, Google Cloud Platform, GitHub, Make, n8n, Voiceflow.

RELEVANT PROJECTS

- *Computer Vision - Tracking and Collision Detection in Spinning Tops Simulations.*
- *Deep learning for Osteoporosis Detection from MRI Medical Scans.*
- *Custom U-Net–based Model for Semantic Segmentation of COVID-Affected Lung Tissues.*
- *Flavor Tagging Classification of Bottom-Quark Jets vs. Charm Jets using Deep Learning techniques.*
- *Full Python AI Agent for File Operations & MCP Integration*

Link to articles and projects here: **PORTFOLIO**.

EXPERIENCE

Co-Founder & AI Engineer

Martes AI – `https://www.martes-ai.com`

📅 2024 – Present

- Founded an AI Automation Agency focused on business process optimization.
- Design and deployement of AI agents using advanced ML algorithms (e.g. CNNs, Random Forest) and RAG techniques for automating workflows, content generation, and enhancing user interaction on web platforms.

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Data Analyst

SAS Institute

📅 Nov 2022 – May 2023   📍 Rome, Italy

- Conducted analysis of clients' functional and technical requirements and customized their software solutions (Customer Intelligence).
- Focused on CRM analytics and reporting related to Customer Journey of banking products on web and mobile platforms.

EDUCATION

Machine Learning Workshops
CERN

📅 May 2025   📍 Geneva, Switzerland

- Deep Learning techniques applied to high-energy physics ([certificate](#)).

Internship and Research Thesis: Physics
Université de Genève

📅 Feb – Jul 2025   📍 Geneva, Switzerland

- Thesis: *Wind-Wave Interaction and Reconstruction of the Multidimensional Wave Spectrum*.

Master's degree: Physics (Major: Computational Physics)
Sapienza University of Rome

📅 Sep 2023 – Sep 2025   📍 Rome, Italy

- GPA: 29.13/30
- Relevant exams: *Computer Vision, Applied Machine Learning, Computational Methods and Simulations*.

Bachelor's degree: Physics
Sapienza University of Rome

📅 2019 – 2022   📍 Rome, Italy

- Final grade: 107/110
- Relevant exams: *Computing of Probability, Machine Learning and A.I. Methods*
- Thesis: *Jet Flavor Classification in High-Energy Physics with Deep Neural Networks* (Supervisor: S. Giagu)

High School Diploma
Liceo Scientifico J.F. Kennedy

📅 2014 – 2019   📍 Rome, Italy

- Final grade: 100/100

Exchange Program
The Odyssey Institute for Advanced and International Studies

📅 2017 – 2018   📍 Phoenix, Arizona

- Attended an American high school during junior year and played on the varsity basketball team
- Final GPA: 4.0/4.0

EXTRA CURRICULAR ACTIVITIES

- Basketball Player: Italian "Serie C" and "Serie D" (semi-professional)
- Playing the Piano (Conservatory Program)
- Sailing (Boat License Holder)