

Matteo Villosio

ARTIFICIAL INTELLIGENCE SPECIALIST @ TINEXTA | ADVISOR @ DATAIMED | MEMBER @ GLOBALAI ASSOCIATION

☎ (+39) 340 281 5029 | ✉ cv@matteovillosio.com | 🌐 www.matteovillosio.com | 🗣️ [tsadoq](#) | 🌐 [matteo-villosio](#)

Experience

Tinexta Group

[Remote](#)

AI LEAD

Mar 2025 - Now

- **Lead the development** of two now available **Generative AI** solutions (RAG, Multiagent, Graph-based).
- Proven ability to **effectively communicate complex AI solutions** to clients, ensuring their needs are met and fostering strong, collaborative relationships
- **Mentoring** of 2 juniors.
- **Lead** two classes introducing the use of LLMs to technical stakeholders.

[Remote](#)

ARTIFICIAL INTELLIGENCE SPECIALIST

May 2024 - Mar 2025

- **Implemented** multiple **LLM Agent** and **Multiagent** Solutions.
- **Improved the performances** of our search pipelines of more than 50%.
- Lead the creation of an **ElasticSearch** Database currently storing more than 100 Millions Legal Documents
- Created more than 20 high performance **ElasticSearch** queries, lowering the latency of more than 30% with respect to the previous solutions.

DataIMed

[Remote](#)

AI ADVISOR

June 2024 - Now

- Provided **strategic AI guidance** to enhance proprietary solutions.
- **Led cross-functional teams** in AI project implementation.
- Cultivated **strategic partnerships** with healthcare institutions.
- Strategically **led talent acquisition** to build a high-performing team.
- Lead the development of a multi-collection **MongoDB**-based vector Database capable of storing millions of scientific papers.

GlobalAI

[Geneva, Switzerland](#)

MEMBER

April 2024 - Now

- **Promoted ethical AI development** and sustainable growth through international representation.
- **Empowered** members by providing a unified voice at the United Nations and global institutions.
- **Advocated** for favourable regulatory environments for AI technologies worldwide.

Greenomy

[Bruxelles, Belgium](#)

NLP DATA SCIENTIST

Nov. 2022 - May 2024

- Lead the development of **Artemis**, the AI Advisor by Greenomy.
- **Won 2nd place** at the **Swift Hackathon** "Let's innovate for a sustainable future"
- **Implemented** multiple **LLM** usecases, both based on **Agent** and **RAG** architectures
- **Onboarding and Mentoring** of new joiners.

Generali Assicurazioni

[Milan, Italy](#)

GROUP AUDIT DATA SCIENTIST

Apr. 2022 - Nov. 2022

- **Responsible** of **Data Science** operations @ Group Audit
- Design and implementation of **Machine Learning**, **Deep Learning** and **NLP** architectures applied to **Auditing and Control functions**.
- **Exploration** of structured and unstructured data and **ETL pipeline** design.

Mediolanum Group - Flowe

[Greater Milan Area, Italy](#)

DATA ENGINEER

Oct. 2021 - Apr. 2022

- Design and creation of **ETL Pipelines** and their implementation using **PySpark**
- Design and implementation of **Machine Learning** and **Deep Learning** architectures

EisWorld

[Turin, Italy](#)

DATABASE ARCHITECT & FULL STACK DEVELOPER INTERN

Apr. 2019 - Jul. 2019

- **Database design** for internal compliance and Dashboard **full stack development**.

Education

PoliTO - Polytechnic University of Turin

[Turin, Italy](#)

MSC IN DATA SCIENCE AND ENGINEERING

Sep. 2019 - Dec. 2021

- **Graduation Mark 100**, focus on **Machine Learning** ∩ **Social Networks** ∪ **Security** ∪ **Statistics and Statistical Programming**.
- Master's Thesis about **Social Network Popularity Prediction** supervised by **SmartData's Prof. Luca Vassio**.

PoliTO - Polytechnic University of Turin

[Turin, Italy](#)

BSC IN COMPUTER ENGINEERING

Sep. 2015 - Jul. 2019

- **Curricular Internship @ EisWorld** as **Database architect**
- **Computer Science** ∪ **Networking** ∪ **Electronics**

Languages

• **English:** Fluent, CAE, upper C1

• **Italian:** Native speaker

• **French:** Lower Intermediate

Notable Projects

ErisForge: Behavior Control for LLMs

- Over **200 stars on GitHub** and 100 Points on HarckerNews
- Python library for modifying **Large Language Models (LLMs)** by ablating or inducing specific behaviors through internal direction manipulation.
- Compatible with almost any transformer-based LLM, avoiding reliance on transformer lenses or architecture-specific tools.
- Useful for **refusal behavior control**, tone/personality customization, censorship research, and adversarial testing.
- [Check me out](#)

Haystack Documentation AI Agent

- GenAI Powered Agent capable of surfing the documentation of the famous Haystack Library and help and write code for the user.
- Completely stateless
- Based on Haystack and Streamlit
- [Check me out](#)

KomPY: Python Wrapper for Komoot APIs

- Python wrapper for **Komoot APIs**: defines datatypes and objects to have a Pythonic experience with Komoot APIs.
- Streamlined integration with the most used python **geospatial libraries**.
- [Check me out](#)

iCarl - Incremental Learning SOTA Improvement

PoliTO, Graded 27/30

- Re-implementation of State of the Art **iCarl deep learning classification training strategy** using Pytorch and Scikit-learn.
- Improvements of SOTA results by means of **image clustering** and **averaging**.

Certifications

Building GenAI Applications with MongoDB

2024

MongoDB University

Course on creating GenAI applications using MongoDB Atlas Vector Search, focusing on semantic search, chatbot development, and Retrieval-Augmented Generation (RAG) with MongoDB and LangChain.

Multi AI Agent Systems with crewAI

2024

DeepLearning.ai

Course on designing effective AI agents and organizing multi-agent teams to automate business processes using CrewAI framework.

Agentic Design Patterns with AutoGen

2024

DeepLearning.ai

Course on building and customizing multi-agent systems using AutoGen, a framework for developing LLM applications with collaborative agents.

Knowledge Graphs for RAG

2024

DeepLearning.ai

Course on leveraging knowledge graphs in retrieval augmented generation (RAG) applications.

EU Taxonomy and Sustainable Finance

2023

Greenomy Academy

Course regarding EU Taxonomy Regulation and how to successfully implement reporting requirements

The Materiality of ESG Factors

2023

The Wharton School

Specialization focused on Finance, Sustainability and ESG

Natural Language Processing Specialization

2022

DeepLearning.ai

Specialization regarding all technical and theoretical aspects of NLP

R Programming

2021

Johns Hopkins University

The course covers practical issues in statistical computing

Volunteering

Member

April. 2024 - Present

GlobalAI Association

- **Promoted ethical AI development** and sustainable growth through international representation.
- **Empowered** members by providing a unified voice at the United Nations and global institutions.
- **Advocated** for favourable regulatory environments for AI technologies worldwide.

Head of Hub

Feb. 2022 - Dec 2023

FAWLTS

- **Counseling and Mentoring** of highschool students
- **Organization of events** and activities
- **Management of a Team** of more than 10 people

Librarian

2012 - 2014

Carlo Levy City Library

- **Assistance** for the user of the library and book cataloguing
- Creation for user manuals for technological devices
- **Start up** of the e-book program, allowing users to borrow both devices and e-book files