

Daniele Compagnoni

Computer Engineer | NLP & Agentic Systems | Building Scalable LLM Infrastructure & RAG Pipelines

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PROFESSIONAL SUMMARY

Junior AI Engineer bridging the gap between advanced Natural Language Processing infrastructure and commercial business strategy. Combines rigorous university-level CS fundamentals with hands-on expertise in developing agentic AI workflows, LLM integration, and RAG pipelines. Currently collaborating on cutting-edge academic research to build autonomous agentic solutions for the Minerva model. Backed by 18+ months of independent B2C sales and operational management, providing a unique ability to translate complex technical architectures into measurable business value. Geographically flexible and actively seeking early-career opportunities in AI Engineering, AI Solutions Architecture, or Applied AI.

EDUCATION

Sapienza University of Rome

Rome, Italy

B.Eng. in Computer and Control Engineering

Sept 2023 – Expected Q3 2026

- **Core CS & Engineering:** Software Design (30/30 Cum Laude), Algorithms and Data Structures, Operating Systems and Networks, Theoretical Computer Science, Computer Systems Architecture.
- **Mathematical Foundations:** Probability and Statistics, Mathematical Programming (Optimization), Dynamic Systems, Control Systems.
- **Future Trajectory:** Pursue a Master's Degree in Engineering in Computer Science and Artificial Intelligence, have real world work experience as an AI engineer

IIS Martino Filetico

Ferentino, Italy

High School Diploma

Sept 2018 – June 2023

TECHNICAL PROFICIENCIES

- **AI/ML Architecture:** Natural Language Processing (NLP), Agentic AI Workflows, LLM Inference & Optimization, RAG Pipelines, Scalable Data Ingestion.
- **Programming Languages:** Python, Java (OOP, Concurrency), C, SQL (PostgreSQL), Assembly.
- **Deployment Infrastructure:** Flask, REST APIs, Backend Frameworks, Git, Docker, Linux/Unix Environments.
- **Languages:** Italian (Native/Bilingual), English (Full Professional Proficiency).

PROFESSIONAL EXPERIENCE

Sapienza University of Rome

Rome, Italy

AI Researcher & Thesis Collaborator (under Prof. Roberto Navigli)

2025 – Present

- **Agentic AI Development:** Designing and implementing autonomous AI agent workflows leveraging the Minerva model for advanced Natural Language Processing tasks.
- **LLM Infrastructure:** Researching and optimizing local LLM deployment, bridging theoretical NLP concepts with practical, high-performance engineering solutions.

Sapienza Futura

Rome, Italy

Elected Student Board Representative

May 2024 – Present

- **Stakeholder Management:** Represented the Computer Engineering student body, managing stakeholders across faculty, administration, and 10,000+ students.
- **Technical Specification:** Synthesized large-scale feedback into structured proposals and business cases for non-technical decision-makers.

Freelance

Milan, Italy

Independent Sales & Operations Associate

Aug 2022 – Dec 2023

- **Sales Generation:** Ran full B2C sales cycles independently from lead generation to close in a commission-only environment, successfully building pipeline from zero.
- **Operations Management:** Tracked and optimized weekly KPIs (conversion rate, pipeline velocity) and coordinated remote operations using async communication tools.
- **Commercial Strategy:** Developed commercial instincts to effectively communicate product value, align client needs with technical trade-offs, and drive revenue.