



Yahya Momtaz *AI Engineer*

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Professional Experience

AI Researcher, University of Naples Federico II 05/2024 – present | Naples, Italy

- Building an LLM-powered data pipeline with RAG to automate workflows.
- Applied deep learning models to restore historical manuscripts and improve readability.
- Developed an OCR and post-correction pipeline (Kraken, PyTorch, ByT5).
- Deployed a full-stack web app (Flask, React, Docker, GCP).
- Developed the MAGIC website in React and implemented CI/CD pipelines with GitHub Actions.
- Published papers in J. Imaging and J. Electronics; presented at AIUCD and RAD 2025.
- <https://bleed-through-cleaner-app-469035949643.europe-west1.run.app/> [↗](#)
- <https://www.magic.unina.it/> [↗](#)

Apple Developer Academy, Apple and Unina 09/2022 – 06/2023 | Naples, Italy

- Developed an iOS audio game from concept to release, including brainstorming, research, and full-stack implementation.
- Implemented CI/CD pipelines and managed beta testing to ensure quality and iterative improvements.
- <https://apps.apple.com/it/app/scape-inout/id6449718680> [↗](#)
- <https://www.developeracademy.unina.it/it/> [↗](#)

Data Scientist (internship), Spici srl 01/2022 – 08/2022 | Naples, Italy

- Built a LinkedIn web scraper to automate structured data collection for marketing analysis.
- Developed a Flask API for Neo4j, reducing graph database implementation time by 40%.

Network Engineer, Saba INV 06/2018 – 11/2020 | Tehran, Iran

- Maintained and monitored internal network infrastructure to ensure system reliability and uptime.
- Configured and managed servers and network devices supporting daily operations.
- Deployed hardware solutions to enhance workstation performance and connectivity.

Education

Master in Data Science, University of Naples Federico II 10/2021 – 03/2024 | Naples, Italy

Bachelor in Software Engineering, Karaj Azad University 09/2011 – 09/2016 | Karaj, Iran

Publications

Modular Pipeline for Text Recognition in Early Printed Books Using Kraken and ByT5 [↗](#),
Yahya Momtaz et al. *Electronics* 2025, 14(15), 3083

Minimizing Bleed-Through Effect in Medieval Manuscripts with Machine Learning and Robust Statistics [↗](#), Adriano Ettari, Massimo Brescia, Stefania Conte, Yahya Momtaz and Guido Russo.
J. Imaging 2025, 11(5), 136;

Languages

English: C1 • **Italian:** B1

Skills

Python

PyTorch, TensorFlow, Scikit-Learn, Hugging Face, NLP (LLMs, RAG, Text Mining), Model Deployment, Fine-Tuning

OpenCV, YOLOv8, Image Segmentation

Pandas, NumPy, Matplotlib, Plotly, Tableau


SQL, PostgreSQL, Vector Database, Neo4j, Data Pipelines, Apache Airflow

Docker, Git, GitHub Actions (CI/CD), Google Cloud Platform (GCP), AWS (Familiar), Model Context Protocol (MCP)


React, JavaScript

Projects


AI Image API

- Developed an object detection and image enhancement API using YOLO and PyTorch.
- Built Flask backend, Dockerized, deployed on GCP, and created a responsive JS frontend.
- <https://aiimagelive.web.app> 


Multi Agent TradeGraph

- Contributed to a multi-agent AI financial advisor using LangGraph, GPT-4, and Firecrawl for real-time stock analysis.
- Fixed critical pipeline issues, enabling end-to-end multi-stock portfolio recommendations.
- <https://github.com/ApexAILabs/TradeGraph> 

Retrieval Augmented Generation (RAG) Chatbot:

- Developed a document-based QA chatbot for Italian legal texts using LLMs and Information Retrieval techniques.
- Implemented Python backend, Streamlit frontend.
- <https://github.com/yahyamomtaz/ChatBot> 

Prompt Analyzer

- Built a Streamlit app for interactive dataset exploration with LLM insights.
- Implemented CI/CD pipelines and MLOps practices; integrated OpenAI API for prompt-driven analysis.
- <https://pandasai-dataset-analysis.streamlit.app> 

References

Professor Guido Russo, *Full Professor of Physics Department*, University of Naples Federico II
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Professor Alessio Botta, *Associate professor of Computer Engineering*, University of Naples Federico II
alessio.botta@unina.it

Certificates

<https://www.linkedin.com/in/yahya-momtaz-601b34108/details/certifications> 