

Lorenzo De Nisi

AI Engineer, Backend Developer

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WORK EXPERIENCES

AI Engineer | Backend Developer

Connect Reply, Turin, Italy (hybrid)

06/2024 – now

Leading a team of 20+ people in exploring new AI tools and guiding their introduction into ongoing projects. Acting as coordinator for an internal AI-based initiative.

Contributed to the **maintenance and evolution of an IoT platform**, including migrations and the development of new functionalities.

Worked for a **Data Analytics project**, aiming to give insights to the stakeholders and monitoring the overall health of IoT devices, especially after a FOTA (firmware over the air) update.

Done by designing and implementing a **data platform**, serving an interactive **dashboard**.

I led both the **Data Engineering** and the **AI/ML** streams.

Developed and fine-tuned a Virtual Assistant for appliance manuals using **LLMs**, applying **RAG pipelines** and **prompt engineering** to improve knowledge retrieval.

Data Scientist | Python developer

Data Reply, Turin, Italy (hybrid)

11/2021 – 05/2024

I have been involved in 15+ hyperautomation and data science projects, including:

- **Mail dispatching** with NLP models (insurance).
- **Risk factor classification** from free-text documents using semantic rules + ML (insurance).
- **Store traffic forecasting** with predictive models (retail).
- **Price elasticity estimation** (insurance).
- **Layout detection** in letters (Header, Footer, Body, etc.) using ML (insurance).
- **Personal Data and Metadata extraction** from free-text documents using semantic rules and OCR (insurance contracts, invoices, risk reports, accident statements, etc.) (insurance).and from IDs using OCR (driver's licenses, passports, ID cards from multiple countries) (insurance).

In most of these projects, I had **full ownership**: development, ongoing client communication, effort estimation, and in some cases, **team coordination and supervision**.

I also worked closely with the **industrialization team**, applying design patterns to enable efficient parallel development of internal logic and integrations.

Recognition

In March 2023, a hyperautomation project in the insurance sector was awarded **Best Project in the Business Engineering category** during the first **Reply Awards**, a global ceremony across 100+ group companies.

EDUCATION

Master degree in Data Science and Engineering

Politecnico di Torino

2019 – 2021

110/110

Bachelor degree in Computer Engineering

Politecnico di Torino

2016 – 2019

106/110

PROJECTS

Master Thesis

Large-Scale video retrieval through Transformer Encoder (*Lorenzo De Nisi*)

CERTIFICATES

M2L Summer School (*Thessaloniki, 2023*)

Preliminary English Test (PET) (*2016*)

SKILLS

LLM RAG Python scikit-learn pandas Pytorch Linux Java SQL noSQL AWS Grafana Quicksight
OpenSearch Terraform Kubernetes

LANGUAGES

Italian

mother tongue

English

B1 certificate