

# DAVIDE GIARDINI

Data Scientist



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## LANGUAGES

English - C1; Italian - native

## EXPERIENCE

- 3/2024 – now    **AI Developer Intern**    **PricewaterhouseCoopers Italy**
- **Named Entity Recognition** from unstructured data, like legal documents, coming from clients.
  - **Backend** developing and usage of **Google Cloud Platform** (Firestore, Cloud Run, ecc.).
  - Usage of **OpenAI API** for the implementation of a **chat-bot**.
  - Development of Thesis Project: "**Retrieval Augmented Generation** with knowledge graphs: state of the art and comparison with classical approaches".
- 8/2023 – 1/2024    **Student Researcher**    **CINI - INSID&S Lab**
- Utilization of **NLP** techniques (including NER and NEL) to perform **entity extraction** from unstructured data, like Whatsapp text chats, coming from current judicial investigations.
  - Storage of all textual metadata and recognized entities into a **Graph Knowledge Base** (Neo4j).
  - Application of **Automatic Speech Recognition** algorithms for transcribing audio in text format, so that entity extraction can be applicable on them as well.

## EDUCATION

- 9/2022 – Now    **Master Degree: Data Science**    **University of Milano Bicocca; Milan, Italy**
- Main focuses: LLMs, Data Management, Machine Learning, Deep Learning, Natural Language Processing, Artificial Intelligence, Decision Models, Computer Science and Data Science.
  - Expected Graduation Date: October 2024.
- 6/2021 – 9/2021    **Python Certificates**    **FreeCodeCamp.org**
- "[Scientific Computing with Python](#)" and "[Data Analysis with Python](#)"
- 9/2019 – 7/2022    **Bachelor Degree: Statistical Sciences of Economy and Business**    **Alma Mater Studiorum; Bologna, Italy**
- Thesis Project: Evaluation of the Effectiveness of Twitter Sentiment Analysis as a tool for Stock Market Forecasting
  - Main focuses: Statistics, Big Data, Statistical Analysis, Inference and Probability theory, Linear Algebra, Data analysis and visualization, Econometric forecasting.
  - Graduated in July 2022: **110 with honours**.

## PROJECTS & SKILLS

### Projects

Most of my skills can be examined by viewing the projects in my portfolio. They also testify proficiency in **Python** and **R**. [giardinidavide.com](https://giardinidavide.com)

### Natural Language Processing

Word2Vec / LLMs / Bert / GPT / Mistral / Finetuning / Classification / Spacy / NER / ASR

### Deep Learning

Neural Networks / CNN / RNN / Tensorflow

### Data Management

Neo4j / SQL / MongoDB / Firestore / Knowledge Bases / RDF / Cypher

### Statistical Models and Machine Learning

Regression / Clustering / Classification / Decision Trees / Random Forest / Inference

### Reports, Presentations and Data Visualization

For all the projects contained in my portfolio, results are presented through reports, notebooks and presentations, all of which contain powerful data visualizations.

Jupyter Notebooks / Tableau / LaTeX / ggplot / matplotlib / Adobe Illustrator / Power Point