







DAVIDE GIARDINI

Data Scientist



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LANGUAGES

English - C1; Italian - native

EXPERIENCE

- 8/2023 - Now **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**.
 - 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: Machine Learning, Deep Learning, Artificial Intelligence, Data Management, Decision Models, Computer Science and Data Science.
- 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**.

SKILLS

Natural Language Processing

- Deepened in Master Degree courses like Data Semantics and Text Mining.
 - Practiced during Student Researcher Experience.
 - Practiced Word Embeddings in [Data Semantics Project](#), Named Entity Recognition and Linking in [NEEL Project](#), Sentiment Analysis in [Thesis Project](#).
- Word2Vec / Bert / LLMs / Spacy / GateNLP / NER / NEL / NIL pred. / NIL clust. / ASR

Data Management

- Deepened in Master Degree courses like Data Management, Data Semantics Computer Science.
 - Practiced during Student Researcher Experience.
 - Practiced in Data Management Project.
- SQL / MongoDB / Neo4j / Knowledge Bases / RDF / Cypher

Statistical Models and Machine Learning

- Deepened in Bachelor Master Degree courses like Statistics, Inference, Machine Learning, ecc.
 - Practiced in [Machine Learning Project](#) and [Data Science Lab Project](#).
- Regressions / Clustering / Classification / Decision Trees / Random Forest / Inference

Reports, Presentations and Data Visualization

- For all the projects mentioned, results are presented through reports, notebooks and presentations, all of which contain powerful data visualizations.
- Tableau / LaTeX / ggplot / matplotlib / Jupyter Notebooks / Adobe Illustrator / Power Point

Projects & Languages

All the projects mentioned above and many more can be seen in depth on my portfolio websites and testify proficiency in **Python** and **R**.

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