

Daniele Laganà

COMPUTER SCIENCE AND ENGINEERING STUDENT

Milan, Italy

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Summary

High-energy student currently pursuing a MSc in Computer Science and Engineering specializing in Artificial Intelligence while developing new skills and gaining real-world experience. Highly organized and responsible with strong communication and critical thinking skills. Available for relocation.

Education

Politecnico di Milano

MSC IN COMPUTER SCIENCE AND ENGINEERING

Track: Artificial Intelligence (T2I)

Milan, Italy

Sept. 2023 - Current

Università della Calabria

BSC IN COMPUTER ENGINEERING

- Grade: 102/110
- Thesis: "Outlier Detection for Time Series: models and techniques"

Milan, Italy

Sept. 2019 - Sept. 2023

Liceo Scientifico "Leonardo Da Vinci"

SCIENTIFIC HIGH SCHOOL DIPLOMA

- Grade: 98/100

Reggio Calabria, Italy

Sept. 2014 - June 2019

Software Skills

Programming Python, Java, C, Shell, LaTeX

Database SQL, Neo4j, MongoDB, ElasticSearch, Redis, Spark, Cassandra

Libraries pytorch, scikit-learn, pandas, numpy, matplotlib, tensorflow

Personal Skills

Soft Skills Teamwork and Collaboration, Flexible and Adaptable, Problem Solving, Communication

Languages Italian (mother tongue), English (TOEIC® C1)

Projects

Credit card fraud detection using ML Techniques

NUMERICAL ANALYSIS FOR ML PROJECT

- Evaluated machine learning techniques for credit card fraud detection, addressing data imbalance using **SMOTE** and under-sampling. Compared models like **SVM**, **KNN**, **Random Forest**, and **ensemble methods**, with the proposed model showing superior accuracy and efficiency. Future improvements include deep learning and dynamic data sampling for better fraud detection scalability.

Deep Learning Projects

ARTIFICIAL NEURAL NETWORKS TEAM PROJECT

- Implemented various deep learning models for classification and segmentation tasks using TensorFlow and Keras. Applied techniques such as **data augmentation**, **transfer learning**, and **model optimization** to improve performance and efficiency. Conducted experiments on different architectures, evaluating results based on accuracy and computational complexity.

RAG-based Question Answering System

NATURAL LANGUAGE PROCESSING TEAM PROJECT

- Developed a RAG pipeline using **Gemma-2b** and **Sentence Transformers** for context-aware QA. Implemented **BERTopic** for thematic clustering and a **BERT**-based classifier for toxicity detection. Conducted comprehensive evaluation using **BERTScore** and **ROUGE** metrics, and deployed an interactive **Gradio** interface for real-time model demonstration.

Work Experience

Liceo Scientifico "Leonardo Da Vinci"

DIGITAL ARCHIVING ASSISTANT - HIGH SCHOOL APPRENTICESHIP PROGRAMME

- Used Microsoft Word and other software tools to digitally catalogue materials from the school laboratories.
- Collaborated with team members to achieve target results.

Reggio Calabria, Italy

October 2016 - May 2018