Daniele **Laganà**

Computer Science and Engineering Student

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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 *Milan, italy*

MSc in Computer Science and Engineering *Sept. 2023 - Current*

Track: Artificial Intelligence (T2I)

Università della Calabria *Milan, Italy*

BSc in Computer Engineering *Sept. 2019 - Sept. 2023*

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

Liceo Scientifico ”Leonardo Da Vinci” *Reggio Calabria, Italy*

Scientific High School Diploma *Sept. 2014 - June 2019*

- Grade: 98/100

Software Skills

Progamming Python, Java, C, Shell, LaTeX

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

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

Soft Skills

Personal 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.

4-operand circuit using VHDL

Digital Electronics Project

- Developed a 4-operand pipelined circuit with two clock cycles of latency using both behavioral and structural **VHDL** approaches. Implemented on Zedboard Zynq, achieving high efficiency and synchronization with minimal resource usage. Simulated the design at 8-bit and 16-bit, ensuring optimal performance through timing analysis and power consumption evaluation.

LTI System Design and Stability Analysis

Foundations of Automatics Project

- Analyzed continuous-time LTI systems by deriving transfer functions, identifying poles/zeros, and verifying **BIBO** stability. Simulated system responses (impulse, step, ramp) and performed frequency analysis using Bode plots. Used MATLAB to optimize control strategies for system performance.

Work Experience

Liceo Scientifico ”Leonardo Da Vinci” *Reggio Calabria, Italy*

Digital Archiving Assistant - High School Apprenticeship Programme *October 2016 - May. 2018*

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