Nicolò Calandra

Genoa, Italy

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Profile

Computer Science graduate with a strong foundation in Python, SQL, and database management, complemented by hands-on experience in data preparation for machine learning applications. Gained practical skills through IT internships and image classification projects, enhancing data accessibility and supporting advanced analytics. Eager to leverage technical expertise to drive data-driven insights and solutions

Education

University of Genoa   **Sep 2025 - Present**
Master's Degree, Data Science and Engineering - Artificial Intelligence

University of Genoa   **Sep 2022 - Jul 2025**
Bachelor's Degree, Computer Science
- **GPA:** 110/110 cum laude

E. Fermi Scientific High School   **Sep 2017 - Jun 2022**
High School Diploma, Scientific Studies
- **GPA:** 95/100

Work Experience

AGN Energia Spa   **Feb 2023 - Mar 2023**
IT Department Intern | Data Scientist   *Genoa*
Collaborated with the IT team to maintain and migrate databases using Git, enhancing data accessibility and integrity while laying the foundation for robust application development.
- Prepared data for machine learning applications using SQL and Python, improving data readiness and supporting advanced analytics projects

Mobalytics   **Jan 2022 - Apr 2022**
Content Creator
Developed strategic articles and guides for the video game "Destiny 2," showcasing strong analytical skills and effective communication necessary for cross-functional collaboration in technical projects.

Academic Projects

Thesis: Image Classification of Corals using Logistic Regression   **2025**
University of Genoa
- Developed a model to classify coral species from underwater images.
- Managed and pre-processed an image dataset, including feature extraction techniques.
- Analyzed the model's performance and validated the obtained results.
- Technologies: Python, Scikit-learn, Pandas, NumPy, Matplotlib.

Low-Cost Deep Learning System for Automated Melanoma Detection   **2025 - 2025**
https://github.com/Agovvvvv/deep-learning-melanoma-detection
- **Developed a low-cost, automated deep learning system for melanoma detection** using an **ensemble of five ConvNeXtBase models** and advanced medical image preprocessing, targeting a financial barrier
- Implemented a **progressive training strategy** over 50 epochs (3 phases: classifier-only, partial unfreezing, full fine-tuning) and utilized **Focal Loss with class weighting**
- Engineered a full **Medical Image Preprocessing pipeline** including morphological black-hat transform for hair removal and CLAHE contrast enhancement in LAB color space to preserve and enhance medically relevant features.

Technical Skills

- **Programming Languages**: Python, Java, SQL, C++, JavaScript, Flutter, Dart, HTML, CSS
- **Machine Learning & AI**: Scikit-learn, Pandas & NumPy, Matplotlib, PyTorch, TensorFlow
- **Tools And Technologies**: Git, Jupyter Notebook, GitHub
- **Data Science & Analytics**: Data Science, Analytical Skills, Curiosity, Database, Data Structures
- **Development & Engineering**: Web Development, Computer Science, Computer Engineering, Data Engineering, AI/ML Engineering
- **Soft Skills**: Leadership, Learning Agility, Teamwork

Awards and Certifications

- **National Finals of the Mathematical Games - Bocconi University:**May 2016
- **2nd Place in the provincial semi-finals of the Mathematical Games:**March 2016
- **1st Place in the Pythagoras Cup Mathematical Games, Liguria and Piedmont regions:**October 2015

Additional Information

Rucos   **2023 - Present**

Manager

- Manager at the amateur football association "Rucos" for the "Calcio Liguria Serie A" championship, 2023-2025 seasons.

Languages

- Italian (Native)
- English (B2)