

# Alessandro Sottile

## Curriculum Vitae

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I hold a Master's degree in Data Science, complemented by a strong foundation in statistics from my undergraduate studies. I possess advanced skills in developing machine learning/deep learning models and in data analysis and management. I am seeking challenging opportunities to apply my expertise and contribute to innovative solutions.

## Education

- 2021–2024 **Master's Degree in Data Science**, *Sapienza University of Rome*, Rome, Italy.  
During my university course, delivered entirely in English, I collaborated on original projects using state-of-the-art technologies in the fields of deep learning, machine learning, data analysis, and data management. These projects dealt with a wide range of data, including texts, numbers, images, and 3D scans. The projects are available for consultation on my Github repository.
- 09/2022 **Training Camp**, *Leonardo SpA*, Rome, During the Training Camp, I enhanced my skills in the field of deep learning through theoretical and practical lessons. Applying this knowledge to the task of "image classification" on photos of various categories of ships.
- 2018–2021 **Bachelor's Degree in Managerial Statistics**, *Sapienza University of Rome*, Rome, Italy.  
During my undergraduate studies, I acquired a solid foundation of knowledge in statistical disciplines, both theoretical and applied, complemented by extensive training in Computer Science, Mathematics, and Probability. Some of the projects carried out are available for consultation on my Github repository.

## Experience

- 05/2024 – Present **Data Scientist**, *Bip S.p.A.*, Rome.  
During my internship, I worked on developing generative AI solutions using LangChain, analyzing and managing data on Databricks using Python and SQL, and creating dashboards with Power BI
- 10/2023 – 02/2024 **External Consultant**, *AQUABIO.IT SRL*, Viterbo.  
I served as an external consultant with the main focus on increasing digitalization within the company.
- 06/2023 – 09/2023 **External AI Consultant**, *Sorrìdi SRL*, Latina.  
I was part of a team tasked with developing deep learning models to identify the right type of aligner for each client based on photos of their mouth. Various neural network architectures were used, both creating models from scratch and applying fine-tuning to those from HuggingFace.
- 06/2020 – 11/2021 **Collaboration Grant**, *Sapienza University of Rome*, Rome.  
I had the opportunity to undertake assignments at the university through a merit-based selection. During this period, I provided information support and advice to students, as well as contributed to the digitization of the university's historical-documentary heritage.

## Skills

- Professional Skills Machine Learning | Deep Learning | Data Analysis | Generative AI | Data Management | Data Visualization | Data Preparation | Graph Analytics | Web Scraping | Questionnaire Analysis
- Software Python (PyTorch, TensorFlow, LangChain, OpenAI API, NetworkX, Beautiful Soup), R, SQL (MySQL, PostgreSQL, MongoDB), NoSQL (Neo4j), Matlab, Microsoft Office, Power BI, Gephi,  $\LaTeX$
- Languages Italian (Native) | English (Professional)

## Certificates

- 06/2024 **Databricks Lakehouse Fundamentals**, *Databricks*.
- 04/2022 **Interactive Assessment of Information Quality through Visual Analytics**, *RISIS*.
- 04/2020 **SAS Programming 1: Essentials**, *SAS*.
- 05/2018 **ECDL full core & CAD 2D**, *AICA - Associazione Italiana per l'Informatica e il Calcolo Automatico*.