

Simone De Bonis

Torino, IT | simonedebonis@outlook.com | simonedebonis.github.io

linkedin.com/in/simonedebonis/ | github.com/SimoneDeBonis

Data Scientist with a passion for machine learning and statistical analysis, particularly within the energy sector. Proficient in Python (Pandas, NumPy, Scikit-learn, PySpark), R, and SQL. Experienced in collaborating on data projects using version control tools like GitHub and Azure DevOps across academic, professional, and personal settings.

Skills

Programming Languages: Python, R, SQL

Cloud Platforms: Azure (Data Factory, Synapse Analytics, Functions, DevOps)

Data Analysis Tools: Excel, Power BI

Languages: Italian (Native), English (Fluent)

Experience

Data Scientist, Psaiere Energies – Bressanone, IT Oct 2023 – Dec 2024

- Developed and implemented models for forecasting day-ahead power prices and energy production from renewable sources.
- Migrated data processes from on-premises infrastructure to Azure cloud enhancing system efficiency, scalability, and resilience.
- Created Power BI dashboards for real-time monitoring and decision-making in energy trading.

Research internship, Marche Polytechnic University – Ancona, IT Feb 2023 – Oct 2023

- Developed a Python program integrating various machine learning models to predict and analyze engine failures for a leading automotive company.

Education

MSc in Data Science for Economics and Business, Marche Polytechnic University Sept 2021 – Oct 2023

- Relevant courses: Big Data Econometrics, Computational Statistics, Big Data Analytics.
- Thesis: Design of a Procedure for the Definition of Rules for the Early Diagnosis of Engine Failures.

BSc in Economics, Markets and Institutions, University of Bologna Nov 2017 – Sept 2021

- Relevant courses: Econometrics, Statistics, Financial Markets and Institutions.
- Thesis: Risk Measures and Financial Risk Management.

Professional courses

Deep Learning Applications, IFOA. 60 hours

Artificial Intelligence and Machine Learning, IFOA. 60 hours

Projects

Data-Driven Intrusion Prevention System

- Collaborated with an IT consulting firm to develop and implement a statistical model for anomaly detection in server log data, enhancing system monitoring capabilities.
- Tools Used: Python.

Municipal Default Early Warning System website [italian]

- Developed a predictive model for Italian municipal defaults using open government data, applied preprocessing techniques, and presented results through interactive Power BI dashboards.
- Tools Used: R, Power BI.