Simone De Bonis

Bressanone (BZ), IT | simone.debonis98@gmail.com | | simonedebonis.github.io

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Data Scientist passionate about machine learning and statistical analysis, with a strong interest in the financial sector. Proficient in Python, R, and SQL. Experienced in collaborating on data projects using version control tools such as GitHub and Azure DevOps in academic, professional, and personal settings.

Skills

Programming Languages: Python, R, SQL

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

Data Visualization: Excel, Power BI

Languages: Italian (Native), English (Fluent)

Experience

Data Scientist, Psaier Energies – Bressanone, IT Oct 2023 – Ongoing

- Develop and implement machine learning models for forecasting energy production from Renewable sources.
- Develop and implement statistical models for market forecasting and analysis.
- Migrate data processes from on-premises infrastructure to Azure cloud, enhancing system efficiency, scalability, and resilience.
- Create 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 to integrate knowledge from various machine learning models to predict and understand 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.

BA 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

- Partnered 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 utilizing open government data, applied advanced preprocessing techniques, and presented results via interactive Power BI dashboards.
- Tools Used: R, Power BI.