Silvio Baratto Roldan

github | silviobaratto.com | silvio.baratto22@gmail.com

EDUCATION:

MSc Data Science and Scientific Computing

University of Trieste | 2021-2023

BSc Electronic and Computer Engineering

University of Trieste | 2016-2020

Erasmus+ Mathematics and Computer Science

UAM Madrid | 2022-2023

TECHNICAL SKILLS:

- **Programming Languages**: Python, C++, SQL .
- **Frameworks & Tools:** PyTorch, Streamlit, Angular, Django.
- **Data Processing & Analysis:** Pandas, NumPy, Scikit-learn.
- **Web Development:** HTML, CSS, TypeScript.
- **Cloud Platforms:** AWS.

AWARDS:

Winner Selection Day CC1: environmental sustainability, advanced technologies, and social impact by iNEST

Winner YES!Call 2023 - Sustainable Innovation Solutions by UNIDO

First Place in Transform4Europe Business Plan Competition by University of Trieste

LANGUAGES:

Italian (Native)
Spanish (Native)
English (Proficient)

PROFILE:

Data Scientist with experience developing AI-powered systems. Worked on projects involving automation, predictive analysis, and real-time monitoring across industries such as finance, logistics, and environmental sustainability. Always looking for ways to improve processes and systems through technology.

EXPERIENCE:

Data Scientist, Internship
European Central Bank, DE
Mar 2024 - Present

- Developed and fine-tuned GPT-2 PyTorch model to solve naming convention problems in financial datasets, enhancing data quality and compliance. Created a sentiment analysis tool for surveys.
- Developed a Python library to produce logical transformation rules for FinREP, focusing on derivation and generation rules.

Data Scientist, Internship
Generali Investments, IT
Nov 2023 - Feb 2024

- Contributed to the development of a portfolio optimization WebApp using Python and Streamlit.

Logistic Automation Specialist, Internship
EssilorLuxottica, IT
Mar 2021 - Sep 2021

- Managed the implementation of industrial logistics projects utilizing AGV technology (ABB).
- Conducted daily KPI analysis in Excel to optimize production processes and identify areas for improvement during the Ramp-Up and Production phases.
- Utilized machine learning techniques, such as Random Forest and Naive Bayes, to prevent maintenance issues.

PROJECTS:

Nemo.AI: At Nemo.AI, I designed AI models to predict fish populations and identify optimal fishing zones in real time. I also built a dynamic dashboard for users, combining data from sources like Copernicus and Global Fishing Watch.
GPTGram: GPTGram is a project that combines the power of Generative Pretraining Transformers (GPT) with the versatility of Telegram's API to create a responsive and interactive chatbot. It utilizes a model trained on chat data to respond to messages in a human-like manner.