

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 strong background in developing AI-powered systems. Proven track record of enhancing automation, predictive analysis, and real-time monitoring in various sectors including finance, logistics, and environmental sustainability.

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.

Founder

Nemo.AI, IT

Jun 2023 - Present

- ◆ Developed deep learning models (RNNs, LSTMs, Transformers) for real-time prediction of fish abundance and optimal fishing zones.
- ◆ Implemented Variational Autoencoder (VAE) models to sample possible probability distributions.
- ◆ Created a real-time user interface using Angular, integrated with a Django-based API for dynamic data display and user request handling on the dashboard.
- ◆ Integrated data from Copernicus, Global Fishing Watch (GFW), and fish market data.

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).