

Pietro Bonardi

< Machine Learning Engineer / Data Scientist >

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About me.

Applied Machine Learning Engineer specializing in building production-ready ML systems, risk models and scalable MLOps pipeline in the financial industry. [[personal-website](#)]

Work Experiences.

ML Engineer | Data Scientist @ ING

Milan, IT [Nov.2022-Present]

- Architected a feature creation engine enabling rapid generation of 500+ features per project through simple configuration vs. manual coding. Adopted by 10+ engineers across multiple projects.
- Built and deployed an early warning signal system to predict delinquencies across ING products. Fully orchestrated via Airflow, enabling continuous alerting at-risk accounts. This led to a 40% increase in recovery rates.
- Developed a standardized Streamlit-based monitoring tool, able to generate reports. Nearly automates all monitoring tasks.
- Engineered a scalable ML batch pipeline enabling ING to provide an always on pre-approved loan offer for customers. Bringing a 2x YoY increase in loan disbursement.
- Led internal Python for Data Science course, successfully training 20+ professionals per cohort.

<>. PySpark | MLflow | Airflow | Optuna | AWS | Bash | CI/CD Pipelines | Streamlit

Data Science intern @ Fastweb

Milan, IT [Mar.2021-Nov.2021]

- Developed a machine learning classifier designed to drive remuneration processes by predicting salary bands.
- Applied explainable AI analysis to ensure model interpretability for business stakeholders.

<>. Python | MySQL | SHAP | PowerBI

Research Engineering intern @ University of Brescia

Brescia, IT [Oct.2018-Mar.2019]

- Conducted research on Bluetooth Low Energy protocol.
- Implemented a sniffer on board able to debug BLE connection. Reduced the cost by 60% compared to market alternatives.

<>. C | Bash | Linux | Computer Network

Publication.

Introduction to Quantum Machine Learning

- Authored a peer-reviewed publication explaining foundational quantum ML concepts (QRAM, Grover) and advanced algorithm for applied machine learning practitioners. [[Paper](#)]

<>. QML | Latex

Education.

Master of Science in Data Science

[Feb. 2022]

@ University of Milano-Bicocca | [score: 110/110]

Main Courses: Machine & Deep Learning | Probability & Statistics | Statistical Modelling

Bachelor of Science in Computer Science & Engineering

[Oct. 2019]

@ University of Brescia

Main Courses: Software Engineering | Linear Algebra | Calculus | Operating System | Physics

Projects.

Galgo - Genetic Algorithm

- An open-source implementation of the genetic algorithm. Designed to provide a flexible and easily integrable interface for various applications. [[Link](#)]

<>. Open-source | Python | Object Oriented Programming

Path-Finder

- Implemented a simple visualisation tool for shortest path algorithms (DFS, BFS, etc.) with the aim of delving more deeply into the study of DSA & Graphs. [[Link](#)]

<>. Python | Data Structure & Algorithms | Graph