

Pietro Bonardi

< Machine Learning Engineer / Data Scientist >



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About me.

Applied Machine Learning Engineer with 3+ years of experience building production ML systems, risk models and scalable MLOps pipeline in the financial industry. [\[personal-website\]](#)

Work Experiences.

ML Engineer | Data Scientist @ ING

Milan, IT
11/2022 - Present

- Architected a **ML framework** for data science projects across ING. It includes a **feature creation engine** that significantly accelerates model development cycles and ensures high code quality. Adopted by **10+ engineers** across multiple projects.
- Built and deployed an **early warning signal system** to predict delinquencies across ING products. Fully automated via Airflow, enabling continuous alerting at-risk accounts. This led to a **40% increase** in recovery rates.
- Led internal Python for Data Science course, successfully training 20+ professionals per cohort.
- Developed a standardized Streamlit-based monitoring tool, able to generate reports. Nearly automates all monitoring tasks.
- Engineered a scalable ML pipeline enabling ING to provide an always on pre-approved loan offer for customers. Bringing a 2x YoY increase in loan disbursement.

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

Data Science intern @ Fastweb

Milan, IT
03/2021 - 11/2021

- 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.

Tools. Python | MySQL | SHAP | PowerBI

Research Engineering intern @ University of Brescia

Brescia, IT
10/2018 - 03/2019

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

Tools. 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 researcher. [\[Paper\]](#)

Tools. QML | Latex

Education.

Master of Science in Data Science

Feb. 2022

@ University of Milano-Bicocca

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

Bachelor of Science in Computer Science & Engineering

Oct. 2019

@ University of Brescia

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