

DANIELE D'AVINO

MACHINE LEARNING ENGINEER: CLOUD AI SPECIALIST

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SUMMARY

Machine Learning Engineer with experience in transforming raw data into meaningful insights through the use of AI (Data-centric AI, ML Modeling, AI applications, MLOps) and statistics for better decision-making. Proven expertise in mathematical modeling, machine learning, and statistical techniques. Skilled in delivering technical leadership and managing teams of data scientists and analysts.

SKILLS

Math and Statistics: operative research (optimization), Bayesian statistics, simulation techniques, graph theory.

Dev and programming: Python (Scikit-learn, PyTorch, Networkx, PyMC3, Streamlit, OpenCV), Docker, Git, SQL, GCP (Cloud Run, Cloud Build, Vertex AI, Big Query, Artifact), JupyterLab, Fast API, Generative AI (LLM).

Data analysis and Machine learning: Factor analysis, Dimensionality reduction, Network analysis, Regression, Classification, Clustering, Statistical programming, WebApp prototyping.

WORK EXPERIENCE

Machine Learning Engineer Sky Group, Milano

02/2022 – Present

Work within the anti-piracy and cybersecurity team to develop secure web application in the cloud. I'm involved in the following tasks:

- Machine Learning development:
 - Optimizing algorithms and tuning parameters for object detection, achieving a 10% improvement in accuracy.
 - Creating and deploying Generative AI tools for computer vision tasks (Speech Recognition).
 - Developing knowledge graphs and machine learning models for monitoring fraudulent activities over broadcast networks, focusing on real-world applicability.
- Cloud Engineering and Deployment:
 - Participating in the cloud migration strategy, transitioning from VMs to a microservices architecture using Docker and APIs, resulting in a 30% reduction in execution time and enhanced logging.
 - Conducting code reviews and debugging, ensuring robust and efficient team output.

Data Scientist

06/2018 – 02/2022

Wealthype, Milano

Developed and maintained machine learning applications for both supervised and unsupervised analysis on mixed structured data. Led data enrichment, simulation, and optimization activities using a Bayesian programming framework.

- ML applications that result in an average 5% increase in customer profitability.

Quantitative Analyst

02/2016 – 06/2018

AdviseOnly, Milano

Worked on the digital asset management platform where my main focus was on developing and managing investment strategies for different financial goals pursued by end customers.

VOLUNTEERING

Data Scientist

11/2023 – Present

MeteoNetwork ODV, Remote

I'm focused on ensuring the data quality of information sourced from weather stations to improve anomaly detection tools.

MAIN PERSONAL PROJECTS

[Decision Intelligence Application](#): web application developed for addressing fraud detection and clustering customers. Frontend and backend deployed on GCP.

[Meteo Adverse Classifier](#): classification algorithm for predicting climate adverse future condition.

[Network Analysis Pipeline](#) : Analysis of submarine telecommunication network via graph theory.

MAIN EDUCATION & CERTIFICATIONS

[Machine Learning Engineering Curriculum](#) at FourthBrain.ai

[Google Cybersecurity Certificate](#) at Google-Coursera

Master degree in Quantitative Finance at Università degli studi di Milano – Bicocca