

# 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, Generative AI) 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, Streamlit, OpenCV), Docker, Git, SQL, Google Cloud (Cloud Run, Vertex AI, Big Query), JupyterLab, API, Generative AI (LLM), Linux environment.

**Data analysis and Machine learning:** Factor analysis, Dimensionality reduction, Network analysis, Regression, Classification, Clustering, Statistical programming, WebApp/POC prototyping, Embedding Techniques, NLP.

## WORK EXPERIENCE

### Machine Learning Engineer Sky Group, Milano

02/2022 – Present

*Work within the anti-piracy and cybersecurity team to develop network monitoring tools. I'm involved in the following tasks:*

- Machine Learning development:
  - Optimizing algorithms for object detection tool, achieving a 10% improvement in accuracy.
  - Developing Generative AI tools for language and computer vision tasks, reducing execution time by 50%.
  - Developing and cloud-deploying Machine Learning models for monitoring IP activities over broadcast networks.
- Cloud Engineering and deployment:
  - Participating in the cloud migration strategy, transitioning from local VMs to a microservices architecture inside GCP, 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 for wealth management sector that result in an average 5% increase in customer profitability.
- [International PATENT](#) about customized financial portfolio construction method.

### 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.*

## MAIN PERSONAL PROJECTS

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

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

[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

[Deep Learning Specialization](#) at DeepLearning.AI

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