

DANIELE D'AVINO

DATA SCIENTIST FOR DECISION MAKING

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SUMMARY

Data scientist 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, quantitative analysis and visualization.

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, Hugging Face Transformers.

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

WORK EXPERIENCE

Machine Learning Scientist 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 side:
 - improving the accuracy of an object detection tool (actual: +10%);
 - developing speech recognition system with Transformers architecture and OCR for Video analysis;
 - developing knowledge graphs and clustering models for fraudulent activity monitoring over OTT network;
- Engineering side:
 - Implementing a cloud migration strategy to automate internal processes and facilitate cross-functional collaboration among teams, leveraging microservices architecture with Docker containers and APIs (from VMs). Achieved a 30% reduction in execution time while improving logging management capabilities.
 - Code review and debug activity for my team.

Data Scientist Wealthype, Milano

06/2018 – 02/2022

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 AdviseOnly, Milano

02/2016 – 06/2018

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.

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.

[Churn Prediction](#): classification algorithm for predicting churn risk for customers of an insurance company (this solution was built for a public challenge that reach 7th place on around 400 participants).

EDUCATION

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

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

Certification in [Deep Learning](#) at Deeplearning.ai

Certification in [Smart Analytics, Machine Learning & AI](#) on Google Cloud Platform

Certification in [Data Science](#) and [Artificial Intelligence](#) from Microsoft Professional Program