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, 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   02/2022 – Present
Sky Group, Milano
Work within the anti-piracy and cybersecurity team to develop network monitoring tools. I'm involved in the following tasks:
- Machine Learning development:
  o Optimizing algorithms for object detection tool, achieving a 10% improvement in accuracy.
  o Developing Generative AI tools for language and computer vision tasks, reducing execution time by 50%.
  o Developing and cloud-deploying Machine Learning models for monitoring IP activities over broadcast networks.
  o Developed an optimization engine (ILP) to minimize the cost of API requests: saving expenses for about 30%.
- Cloud Engineering and deployment:
  o 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.
  o 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