DANIELE D'AVINO
SENIOR DATA SCIENTIST FOR DECISION MAKING

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SUMMARY

Senior Data Scientist with experience in transforming raw data into actionable business insights using AI, machine learning, and statistical modeling. Proven expertise in developing, deploying, and maintaining ML models in production environments (MLOps, GCP, Vertex AI). Skilled in technical leadership and team management, with a track record of delivering data-driven solutions that drive measurable business results. Experienced in translating complex data insights into strategic recommendations for cross-functional teams and stakeholders.

SKILLS

Programming & Cloud: Python (Scikit-learn, PyTorch, Pandas), SQL, Google Cloud Platform (Vertex AI, BigQuery, Cloud Run), Docker, Git, Kubeflow Pipelines, Terraform, REST APIs, Linux.

Machine Learning & AI: Regression, Classification, Clustering, Anomaly Detection, NLP, Generative AI/LLMs, Dimensionality Reduction, Embedding Techniques, Factor Analysis, Network Analysis.

Statistics & Optimization: Bayesian Statistics, Operations Research (optimization), Simulation Techniques, Statistical Programming, Graph Theory.

WORK EXPERIENCE

Senior Data Scientist   08/2025 – present
Huware, Milano
Developing and deploying AI/ML solutions for enterprise clients across multiple industries. Leading data science projects from problem definition to production deployment.

Senior Data Scientist   02/2022 – 08/2025
Sky Group, Milano
Delivered data science and ML solutions for anti-piracy and cybersecurity across Sky Group's European markets, working within a cross-functional international team.
- *ML Model Development & Deployment:*
  - Built and deployed ML suite detecting illicit streaming behavior across broadcast networks, achieving 60% improvement in detection accuracy.
  - Developed semi-supervised Bayesian models for anomaly detection with limited labeled data, reducing manual review time by 45%.
  - Created Generative AI tools for automated content analysis and computer vision tasks, reducing investigation time by 50%.
- *Optimization & Cost Reduction:*
  - Applied operations research techniques (Integer Linear Programming, object detection optimization) to improve model accuracy by 10% while cutting infrastructure costs by 30%.
  - Led cloud migration from local VMs to GCP microservices architecture, achieving 40% faster execution and enhanced monitoring capabilities.
- *Technical Leadership:*
  - Conducted code reviews and supported team members, ensuring robust delivery.

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 solutions using a Bayesian programming framework.
- ML applications for wealth management sector that resulted 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 developing and managing quantitative investment strategies for different customer financial goals.
- Developed Bayesian Risk Model to evaluate Italian Bond market.

PERSONAL PROJECTS

Decision Intelligence Application: WebApp developed on GCP for addressing fraud detection and clustering customers.

Meteo Adverse Classifier: classification algorithm for predicting climate adverse future conditions with Open Data.

Network Analysis Pipeline : Analysis of submarine telecommunication network via graph theory.

EDUCATION & CERTIFICATIONS

Professional Machine Learning Engineer Certification at Google Cloud

Generative AI Leader Certification at Google Cloud

Machine Learning Engineering Curriculum at FourthBrain.ai

Cybersecurity Professional Certification at Google Coursera

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