FEDERICO FIORIO
Data & Machine Learning Engineer

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GitHub | LinkedIn | Portfolio | Leetcode

Motivated computer science graduate specializing in data engineering, machine learning, and big data. Proficient in cloud-based solutions, ETL processes, and AI-driven technologies, with a proven ability to optimize workflows and deliver impactful results under pressure. Currently exploring competitive programming as a new challenge—and finding humor in the journey!

EXPERIENCE

Data & Machine Learning Engineer | Data Reply, Milan, Italy
May 2024 - Present
- DAGs Migration: Refactored **Airflow** DAGs from legacy systems to **GCP Composer** 2.x, boosting scheduling efficiency by 10x for a major manufacturing client
- Designed and implemented an ingestion pipeline in **Databricks** to process raw data and deliver insights via Power BI, enabling the identification of dishonest individuals within a client company. This solution improved driver behavior and reduced costs by 20%.
- **RAG** Chatbot: Supported ingestion pipelines for a document retrieval chatbot for a leading bank, leveraging **Azure** and **OpenAI** for embeddings

Data Engineer | Management Solutions, Milan, Italy
October 2023 - April 2024

- Developed ETL workflows with IBM DataStage and SQL for banking data warehouses, improving legacy sql query by an average of 10%
- Enforced data governance policies in cross-functional teams

Software engineer intern| Dilium, **Milan, Italy**
February 2021 - May 2021
- Conducted research on GANs for deepfake generation, emphasizing ethical considerations
- Led training sessions for employees on the emerging risks of these technologies, especially audio forgery
- Developed my Bachelor thesis over open-source technologies used during this period

EDUCATION

MSc in Computer Science | University of Milan
October 2021 – October 2023
Grade: 108 / 110

Erasmus+ **| University of Copenhagen**

BSc in Computer Science | University of Milan
September 2018 – September 2021

CERTIFICATIONS & PROJECTS

Google Cloud Professional Machine Learning Engineer, AWS Machine learning Specialty

BoardGames RAG | (Sorry, since I am marketing the product I cannot share any repo link)
Developed a system that enhances user experience by leveraging game-specific images and symbols, generating text-based outputs enriched with relevant visuals for more interactive and informative recommendations

Thesis: Membership inference attacks on text-to-image models | link
The aim is to test diffusion generative models against membership inference attacks and retrieve sensitive data

Competitive programming | training & contests

SKILLS

Python, Data Engineering, Machine Learning, Artificial Intelligence, Data structures & algorithms, Azure, Databricks, Sharepoint, GCP, Dataproc, Composer, BigQuery, IAM, Airflow, AWS, API, Cloud Deployment, Apache Spark, SQL, NoSQL, RDBMS, Scikit-learn, GitHub, IBM DataStage, VectorDB, Qdrant, Streamlit, Langchain, Docker, Containers.