FEDERICO FIORIO

📞 +39 342 596 4621

✉ fioriofederico99@gmail.com

🔗 Federico Fiorio | LinkedIn

👤 Federico Fiorio | GitHub

📈 Personal website

About me

As a dedicated computer science major, I focus on **data engineering**, **data science**, **machine learning**, and **big data**. My curiosity drives me to stay updated on tech advancements and learn new programming languages. In my free time, I work on personal projects, play board games and engage in sports, balancing life while honing my skills.

Work Experience

Data Reply | Milan, Italy   **05/2024 – Current**
Data Engineer

Consultancy based on AI, Big data and quantum.

- **Migration of DAGs:** Migrated DAGs from an old cloud composer with an obsolete **airflow** version to a new one, refactoring code and adapting it to **2.x** airflow version
- **Google cloud Suit:** Engaged in data ingestion and transformation using various GCP elements, mainly **Bigquery, Composer, Cloud functions, GCS**

Management Solutions | Milan, Italy   **10/2023 – 04/2024**
Data Engineer Consultant

International consultant company, working mainly for financial institutions and banks.

- **Development in IBM DataStage (ETL) and SQL** to support the **Datawarehouse** area of a financial institution: Requirements analysis and definition, development, and testing. Support in updating the **PILLAR III metrics** of a financial institution.
- **Proficient in SQL**, leveraging its power to craft intricate queries, enhance database performance, and extract valuable insights
- Collaborated closely with cross-functional teams to establish and enforce **data governance** policies

Dilium s.r.l. | Italy   **02/2021 - 05/2021**
Internship R&D

IT-centered company that develops personalized solutions for clients with focus on AR, VR and web applications.

- Conducted extensive research on deep fakes and Generative Adversarial Networks (**GANs**) architecture
- Maintained a strong focus on ethical considerations and responsible use of GANs technology during

Skills

Machine learning fields:	NLP, Membership inference attacks to text-to-image models, generative AI (deepfakes)
Machine learning frameworks:	Scikit-learn, Pytorch, Tensorflow
Programming Languages:	Python, Java, Golang, C, C#, Javascript
DBMS – ETL:	SQL Server, IBM InfoSphere DataStage
Big data processing:	Pyspark
Versioning control:	Git
Google Cloud Platform:	Bigquery, Composer, Cloud functions, GCS

Education

10/2021 - 10/2023

Master Degree in Computer Science | Università degli studi di Milano, Milan

- Thesis on Membership inference attacks on text-to-image models
- Advanced machine learning theory and algorithms

09/2022 - 02/2023

Erasmus + | University of Copenhagen, Copenhagen

- Computer vision traditional algorithms and CNNs
- LLM theory and practice

10/2018 - 10/2021

Bachelor Degree in Computer Science | Università degli studi di Milano, Milan

- Thesis on generation of deepfakes through analysis and study of various python libraries

Personal projects

- Currently implementing a **fall detection system** to use on a smart watch in the context of domotics, we are a group of students from the university of Milan and we are trying to create a **startup** by helping elderly people in everyday life
- Published an infinite runner game called "Spaceship Mayhem" on the Play Store in 2020
- Utilized BoardGamesGeek website to predict the complexities of rule books in the context of board games, leveraging important features and data analysis techniques.

Find more on Github ([Federico Fiorio | GitHub](#))

Communication

Italian - Mother tongue   **English** - C1