

# FEDERICO FIORIO



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[Federico Fiorio | LinkedIn](#)



[Federico Fiorio | GitHub](#)



[Personal website](#)



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## About me

As a passionate computer science major, I am dedicated to staying up-to-date with the latest tech advancements and learning new programming languages. My main interests are **data science, machine learning, data engineering, and big data**. With a strong analytical mindset and attention to detail, I excel in meticulously analyzing complex problems and extracting meaningful insights from data. Fueled by curiosity, I continuously seek knowledge and innovative approaches to tackle challenges in data science. During my free time, I enjoy tinkering with personal projects and engaging in sports activities, striking a balance between enjoying life and maintaining a strong commitment to developing my skills.

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## Work Experience

**10/2023 – Current**

Management Solutions | Milan, Italy

### 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
- Elevated **data quality** standards through rigorous scrutiny and enhancement processes

**02/2021 - 05/2021**

Dilium s.r.l. | Italy

### 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 the research process

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## 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

**Data Visualization:** Tableau

**Google Cloud Platform:** Certified machine learning professional

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## 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
- Sentiment analysis
- Algorithms for massive datasets
- Diffusion models for text-to-image generation

**09/2022 - 02/2023**

**Erasmus + | University of Copenhagen, Copenhagen**

- Computer vision traditional algorithms and CNNs
- LLM theory and practice
- Portfolio management and data analysis

**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
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## 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.
- Implemented various algorithms such as Apriori, PCY, Multi-Hash, Multi-Stage, and SON for finding frequent itemsets in big datasets using Twitter APIs

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

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## Communication

**Italian** - Mother tongue

**English** - C1