# Daniele **Mingolla**

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 Luxembourg, Luxembourg

## WORK EXPERIENCE

**AMAZON**                                                    JULY 2022 — NOVEMBER 2022
*DATA ENGINEER INTERN*                                         *Luxembourg, Luxembourg*
- Wrote a requirements analysis needed to rewrite logic in Scala to read and write parquet-format data within an S3 bucket, enabling it to be queried via Spectrum and reducing total query execution costs by 20%.
- Built and monitored a scheduled ETL pipeline in SQL to incrementally update a dashboard created via Amazon QuickSight.
- Assisted several researchers in analyzing and implementing anomaly detection algorithms within a graph used to model the transportation network consisting of more than 100 nodes in order to improve the quality of service of the transportation system.
- **Tech**: AWS, Amazon Redshift, AWS Glue, Amazon S3, Amazon SageMaker, Amazon QuickSight, Scala, SQL.

**PROFESSIONAI**                                              MARCH 2022 — JULY 2022
*PODCAST HOST* ▶                                               *Milan, Italy*
- Recorded 10 episodes in the AI field: studying the audience, researching the topic to be discussed, finding and contacting the guest, and preparing the questions to be asked. Thanks to these episodes, ProfessionAI sold approximately 20 masters with an average transaction of 347 euros.

**LUTECH**                                                    JULY 2020 — SEPTEMBER 2020
*ANALYST DEVELOPER INTERN*                                     *Milan, Italy*
- Developed a predictive model for the classification of hand-signed documents with a precision of 80%.
- Conducted statistical analysis and processed large amounts of data on distributed systems using PySpark.
- **Tech**: PySpark, Python, Spark, Sklearn, NumPy, Pillow, Kafka.

## EDUCATION AND TRAINING

**MASTER'S DEGREE IN COMPUTER AND SYSTEMS SCIENCES**          AUGUST 2021 — JANUARY 2022
*STUDENT EXCHANGE PROGRAM*                                     *Stockholm, Sweden*
- Courses: Data Mining in Computer and Systems Sciences, Entrepreneurship in the Digital Society, Business Process.

**MASTER'S DEGREE IN DATA SCIENCE**                           SEPTEMBER 2020 — OCTOBER 2022
*FINAL GRADE: 105/110 (GPA: 3.5) | CREDITS: 120*              *Milan, Italy*
- Courses: Machine Learning and Decision Models, Data Management and Visualizations, Statistical Modeling.
- **Thesis**: Federated and distributed Machine Learning models for load prediction at the edge.
- **Tech**: Graph Neural Network, PyTorch Geometric Temporal.

**BACHELOR'S DEGREE IN COMPUTER SCIENCE**                     SEPTEMBER 2017 — JULY 2020
*FINAL GRADE: 110/110 CUM LAUDE (GPA: 4.0) | CREDITS: 180*    *Perugia, Italy*
- Courses: Algorithms and Data Structures, Software Engineering, Operative Systems, Databases, C, Java.
- **Thesis**: Application of Machine/Deep learning models for sentiment analysis on hotel reviews.

## PROJECTS

**YLEARNER** ▶                                               JANUARY 2021 — PRESENT
- Founded a podcast with over 200 monthly listens where I interview entrepreneurs, freelancers and experts in every industry.

**PARALLELIZED PIPELINE FOR ANALYZING BOOK PUBLISHERS' ONLINE CATALOG** 　JANUARY 2021 — JULY 2021
- Designed a parallelized pipeline in Python for analyzing and cleaning data scraped from the online catalogue of major Italian book publishers with limited computational resources.
- **Tech**: Hadoop, Dask, NumPy, Pandas, R, Python, Matplotlib, BeautifulSoup, RegEx.

## SKILLS

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|---|---|
| **Programming** | Python, Javascript, Java, C++, R |
| **Technologies** | Azure, AWS, PySpark, Flask, NLTK, TensorFlow, Keras, Pandas, Hadoop, Dask, Git |
| **Databases** | PostgreSQL, MySQL, Amazon S3, Amazon Redshift |
| **Business Process** | BPMN, CMMN, DCR, IFML |