

Daniele Avolio

MASTER'S DEGREE IN COMPUTER SCIENCE · DATA ENGINEER

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Education

Unical (University of Calabria)

Cosenza, Italy

M.S. IN COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE - 110/110

Sep. 2022 - Apr. 2025

- Advanced Computer Science courses, focusing in Artificial Intelligence, Data Engineering and Big Data.
- Hands-on experience with state-of-the-art technologies and methodologies, including Machine Learning, Deep Learning, and Data Architectures.
- Thesis project: *LLM integration in Data Migration and Integration processes.*

Instituto Superior Técnico

Lisbon, Portugal

ERASMUS+ STUDENT

Apr 2024 - Jul 2024

- Advanced courses in Computer Science and Artificial Intelligence with a focus on Machine and Deep Learning.
- Expanded knowledge in state-of-the-art AI technologies and methodologies.
- Created a network of international contacts with students and professors.

Unical (University of Calabria)

Cosenza, Italy

B.S. IN COMPUTER SCIENCE - 94/110

Sep. 2018 - Apr. 2022

- Solid basis in Programming, Software Engineering, Web Development, and Artificial Intelligence.
- Thesis project: Fullstack web application for the management of a students social network.

Experience

Lutech S.p.A.

Cosenza, Calabria

DATA ENGINEER - INTERNSHIP

April 2025 - Ongoing

- Databricks and SQL Migration of legacy ETL pipelines to a new architecture.
- Tech: Python, OpenAI API, Databricks, SQL, Spark, PySpark, Azure.

Lutech S.p.A.

Cosenza, Calabria

DATA INTEGRATION ENGINEER - INTERNSHIP

October 2024 - March 2025

- Extended and optimized an internal software for legacy XSLT transformations in DataWeave, improving performance and addind OpenAI API integration.
- Developed internal tools for optimizing manual repetitive tasks
- Improved task automation saving 50% of time.
- Tech: Mulesoft, Python, Streamlit, OpenAI API, DataWeave, LLM.

IET s.r.l.

Rende, Calabria

FRONTEND DEVELOPER - INTERNSHIP

May 2022 - Ago. 2022

- Collaborated in designing and developing a custom Angular ngMaterial library to enhance UI components for internal company applications.
- Developed and maintained a scalable internal application using Angular and Tailwind CSS, creating custom survey applications for clients, being free from third-party services.
- Refactored and optimized legacy codebases, implementing new features ensuring scalability for future updates.

Projects

Immersivaudio 🎧

ISTITUTO SUPERIOR TECNICO

- Developed an audio generation application based on state-of-the-art deep learning models with Python.
- Enabled audio generation from videos/images and deployment to Hugging Face Spaces using Gradio.
- Tech: Python, PyTorch, Gradio, Hugging Face, Transformers.

USA School Shootings Analysis 📊

M.S. UNICAL

- Built a data warehouse on USA school shootings using Kaggle data (1970-2022).
- Utilized Pentaho for ETL processes and Tableau for data visualization and analysis.
- Tech: Python, Pentaho, Tableau, Data Warehousing, Data Analysis.

Skills

Big Data

Apache Spark,PySpark, Hadoop (HDFS, Hive), Delta Lake, Databricks, ETL Pipelines, Data Warehousing, SQL/NoSQL, Data Lakes, Azure, Pentaho

ML

Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, Matplotlib, OpenCV, NLTK, Transformers, Gradio

Programming

Python, Java, JavaScript, TypeScript, C++, Bash, Docker, Git, Node.js, HTML5, CSS3, Svelte, Angular, TailwindCSS, Bootstrap, Firebase

Soft Skills

Problem Solving, Teamwork, Communication, Time Management, Adaptability, Creativity

Languages

Italian (Native), English (Fluent)

Honors & Awards

2023 **Best Master Student**, M.S. in Computer Science and Artificial Intelligence

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