



Daniele Avolio

AI & CS STUDENT · DATA SCIENTIST

☎ (+39) 3895996313 | ✉ daniele.avolio14@gmail.com | 🏠 www.danieleavolio.it | 📷 danieleavolio | 🌐 danieleavolio

Education

Instituto Superior Técnico

ERASMUS+ STUDENT

Lisbon, Portugal

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)

M.S. IN COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

Cosenza, Italy

Sep. 2022 - Ongoing

- Practical and theoretical courses in Computer Science and Artificial Intelligence with hands-on projects for real-world applications.
- Focus in Artificial Intelligence and Data Science, with a particular interest in Machine Learning and Deep Learning.

Unical (University of Calabria)

B.S. IN COMPUTER SCIENCE

Cosenza, Italy

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

IET s.r.l.

Rende, Calabria

FRONTEND DEVELOPER - STAGE

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 📺

INSTITUTO 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.

AI Generated Text Detection 📺

M.S. UNICAL

- Developed deep learning models to detect AI-generated text in Kaggle competition using pre-trained models.
- Used BERT, CNNs, and Feedforward Neural Networks, achieving high validation accuracy ($\approx 95\%$).
- Tech: Python, Keras, TensorFlow, BERT.

Information Retrieval System 📺

INSTITUTO SUPERIOR TECNICO

- Developed an Information Retrieval system for keyword extraction and text summarization for BBC News Dataset.
- Implemented TF-IDF, BM25, and sentence clustering for unsupervised and supervised text analysis.
- Tech: Python, NLTK, Gensim, Scikit-learn.

Skills

Data Science & ML

Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, OpenCV, Gradio, NLTK, Spark, Hadoop

Programming

Python, JavaScript, TypeScript, Java, C++, SQL, Node.js, HTML5, CSS3, Svelte, Angular, TailwindCSS, Bootstrap, Git, Firebase, Vercel, Hugging Face, Pentaho, Tableau

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

Unical