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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

Sep. 2018 - Apr. 2022

B.S. IN COMPUTER SCIENCE - 94/110

- · 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 - Present

- Databricks and SQL Migration of legacy ETL pipelines to a new architecture.
- Tech: Python, OpenAl 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 using OpenAl API integration.
- Developed internal tools for optimizing manual repetitive tasks
- Reduced manual data-mapping from 2 hours to 30 minutes using OpenAI API.
- Tech: Mulesoft, Python, Streamlit, OpenAl API, DataWeave, LLM.

IET s.r.l. Rende, Calabria

FRONTEND DEVELOPER 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.

Proiects

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, Data Warehousing, Data Analysis.

Skills_

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

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