AMEDEO CARRARO

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Professional Experience

Full Stack Developer Intern, ITReview, Padua, Italy   Nov 2023 – Dec 2023

- Assisted in building full-stack web features using React for front-end and Node.js/MongoDB for backend, following mentor guidance and best practices
- Supported code reviews by providing feedback on readability and helped optimize simple database queries to enhance performance

Software programmer Intern, AppLibra s.r.l, Thiene, Italy   Oct 2021 – Dec 2021

- Managed the ERP transition from Navision to Dynamics 365, including hands-on development in both environments to deliver tailored software solutions that improved data consistency and process automation
- Designed and implemented Docker-based systems to streamline deployment workflows, improving software distribution speed by 30% and reducing infrastructure downtime

Data Analyst Intern, ULSS 7 Pedemontana, Thiene, Italy   Jul 2015 – Aug 2015

- Deployed a digital signature system within the regional healthcare network, collecting and analyzing operational data
- Automation eliminated human error, boosted processing speed by a factor of 3–4, and ensured that data became instantly accessible and seamlessly shareable across the network

Education

MSc in Computer Engineering: Artificial Intelligence and Robotics (93/110) University of Padua, Italy   Sept 2022 – Mar 2025
Relevant Modules: Machine Learning, Artificial Intelligence, Computer Vision, Intelligent Robotics

Research Thesis: Neural Network for Classifying Variable Star Light Curves   Oct 2024 – Mar 2025

- Analysis and implementation of hybrid CNN and LSTM models for variable star classification using light curves reconstructed and $\Delta m \Delta t$ representations images, following state-of-the-art research
- Achieved up to 99.95% classification accuracy by evaluating model performance across multiple datasets, uncovering key trade-offs between accuracy and computational efficiency

Erasmus+ Computer Science: Artificial Intelligence University of Cyprus   Jan 2024 – Jun 2024
Relevant Modules: Natural Language Processing, Entrepreneur AI, AI in medicine

Ba in Computer Engineering (85/110) University of Padua, Italy   Sep 2016 – Mar 2022
Relevant Modules: Software Engineering, Databases, Operating Systems, Data Structures & Algorithms

Additional Experience/ Projects

Erasmus Hardgainer   Jan 2024 – Jun 2024

- Fine-tuned the Mistral-7B Transformer LLM with Hugging Face and LoRA techniques during an Erasmus+ research project, testing multiple prompts and building an efficient generative QA system for memory-constrained environments; achieved BLEU 62%, ROUGE-1 81%, and METEOR 78%

Project Leukemia   Jan 2024 – Jun 2024

- Designed a robust leukemic cell classification neural network using OpenCV(cv2), combining data augmentation with handcrafted feature extraction, reaching an F1-score of 84.66%

Technical Skills & Interests

- Program Language: Python, Java, C, C++, C#, JavaScript, SQL, HTML, PHP, C/BASE, C/AL, MATLAB, ROS, R
- IT knowledge: Tensorflow, Numpy, Pandas, Scipy, Matplotlib, Keras, Torch, Github & MLOps
- Languages: Italian (mother tongue), English (C1) and French (A2)