Amedeo Carraro

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Computer Engineer specialized in Artificial Intelligence and Machine Learning, experienced in both deep learning architectures and generative AI systems. Skilled in bringing AI solutions from initial concept through to production deployment, working with cross-functional teams to deliver scalable applications with measurable results.
Want to learn more about me or my projects? Visit my website and ask my AI personal assistant!

Professional Experience

AI and Machine Learning Engineer, Terya Spa, Bassano del Grappa, Italy   Nov 2025 – Ongoing
- Designed and deployed conversational AI solutions (chatbot, voicebot and Agents) for internal operations, implementing RAG architectures with LLM integration to enhance information retrieval and response accuracy
- Developed API integrations with existing ERP systems to enable seamless data exchange and workflow automation, ensuring scalability and reliability in production environments

Education

MSc in Computer Engineering: Artificial Intelligence and Robotics, University of Padua   Sep 2022 – Mar 2025
   Erasmus+ University of Cyprus (2024): Natural Language Processing (NLP), AI in Medicine, Entrepreneur AI
Relevant Modules: Machine and Deep Learning, Artificial Intelligence, Computer Vision, Intelligent Robotics

Research Training Intern: Neural Networks for Variable Star Classification   Oct 2024 – Mar 2025

- Analyzed and implemented two hybrid architectures combining CNNs and LSTMs for variable star classification, based on in-depth review and integration of techniques from multiple state-of-the-art publications
- Achieved F1-score >95 % (peak over 99%) on ZTF open dataset balancing between accuracy and computational efficiency

Full Stack Developer Intern, ITReview, Padua, Italy   Nov 2023 – Dec 2023
- Developed full-stack web applications using React frontend and Node.js backend, integrating RESTful APIs to deliver scalable and responsive user experiences
- Collaborated in code reviews to elevate code readability and maintainability, implementing best practices and optimizations that reduced database response times by approximately 20%

BSc in Computer Engineering, University of Padua   Sep 2016 – Mar 2022
Relevant Modules: Software Engineering, Databases, Operating Systems, Data Structures & Algorithms

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

- Managed the ERP migration from Navision to Dynamics 365,developing custom modules and adapting business logic to meet specific organizational requirements while ensuring data integrity throughout the transition
- Built Docker-based containerized systems for internal data exchange and integration, creating isolated environments that reduced deployment downtime and accelerated delivery cycles by approximately 50%

Technical High School Diploma, Istituto Tecnico Tecnologico G.Chilesotti, Thiene(VI)   Sep 2011 – Giu 2016

Internship: Data Analyst, ULSS 7 Pedemontana, Thiene, Italy   Jun 2015 – Aug 2015
- Led the deployment of a digital signature system across the regional healthcare network, enabling real-time data capture and analysis, ensuring compliance with healthcare data governance and enhanced document security
- Automated workflows, eliminating manual errors and achieving 3–4× faster processing

Technical Skills and Languages

- Programming Language: Python, Java, C, C++, JavaScript, C#, SQL, HTML, PHP, MATLAB
- Frameworks: TensorFlow, Numpy, Pandas, Scipy, Matplotlib, Keras, PyTorch, scikit-learn, GitHub
- Languages: Italian (mother tongue), English (C1) and French (A2)
- Certification: OCI AI Foundations Associate, OCI Generative AI Professional, OCI AI Vector Search Professional