

Gabriele Monni

Software engineer
BSc in Applied Computer Science and Data Analytics

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GitHub
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PROFILE	Software engineer working across applied AI, native products, and data systems. Built MUVAD, an end-to-end multimodal video anomaly detection framework that reached 83.17% AUC on UCF-Crime while using 82% less memory than the previous pipeline. Currently IT Technical Officer at the University of Cagliari, managing the institutional e-learning platform.		
EXPERIENCE	IT Technical Officer	Apr 2026 - now	
	University of Cagliari · EFIS, e-learning and educational innovation service centre		
	- Manage the university e-learning platform used for institutional teaching		
	Boat Rental Assistant	Summer 2021 - 2024	
	Aequor srl, Baunei, Italy		
	- Supported daily operations in a 3-person team managing a fleet of 6 boats during peak season - Used Excel to track bookings, availability, and revenue, helping organize day-to-day operations - Assisted Italian and international customers, delivering technical and safety briefings in Italian and English		
SELECTED WORK	MUVAD	2025	
	Explainable video anomaly detection		
	- Built an end-to-end framework for automatic video anomaly detection using multimodal large language models - Designed and implemented an integrated pipeline for video processing, model inference, and natural language explanations - Developed a web interface for video upload, result visualization, and explanation analysis - Reached 83.17% AUC on UCF-Crime, with 82% less memory than the previous pipeline, using a compact 2B multimodal model		
	Python, PyTorch, TensorFlow, computer vision, multimodal LLMs		
	github.com/Zer0codestuff/MUVAD		
EDUCATION	BSc in Applied Computer Science and Data Analytics	2022 - 2025	
	University of Cagliari · 109/110		
	Thesis: MUVAD, explainable video anomaly detection with multimodal LLMs (UCF-Crime, XD-Violence)		
	Industrial Technical Diploma	2017 - 2022	
	ITI Tortoli, Electronics and Electrical Engineering · 100/100		
SKILLS	Languages	Python, C, JavaScript, TypeScript, Swift, SQL, R	
	Tools	Git, Linux, Docker, HTML, Excel	
	AI / data	PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy	
	Product	React, SwiftUI	
LANGUAGES	Italian, native · English, B2 certified; used in work settings		