University of Bamberg, Germany francesco.di-salvo@uni-bamberg.de francesco.disalvo99@gmail.com francescodisalvo05.github.io

Research Interests	<i>Robust Machine Learning:</i> To design robust, explainable, and generalizable algorithms capable of overcoming challenges posed by distribution shifts, out-of-distribution data, label noise, and inherent uncertainties.		
Education	 University of Bamberg Ph.D. in Machine Learning Advisor: Christian Ledig 	Bamberg, Germany Apr. 2023 - Present	
	Polytechnic University of TurinM.Sc. in Data Science and Engineering (109/110)	Turin, Italy Oct. 2020 Oct. 2022	
	University of PalermoB.Sc. in Computer Engineering (with Honours)	Palermo, Italy Sept. 2017 - July. 2020	
Research Experience	 NATO STO CMRE	La Spezia, Italy Nov. 2022 - Mar. 2023	
	 Radboud University Medical Center AXTI Lab Research Intern, Master's Thesis Advisors: Marco Caballo, Filippo Molinari. Topic: Bayesian uncertainty for lesion classification and seg 	Nijmegen, Netherlands Mar. 2022 - Aug. 2022 gmentation.	
Selected papers	Full list on Google Scholar.1. Privacy-preserving datasets by capturing feature distributions with Conditional VAEs		
	Francesco Di Salvo , David Tafler, Sebastian Doerrich, Christian Ledig British Machine Vision Conference 2024 (BMVC).		
	2. MedMNIST-C: Comprehensive benchmark and improved classifier robustness by simulating realistic image corruptions		
	 Francesco Di Salvo, Sebastian Doerrich, Christian Ledig Advancing Data Solutions in Medical Imaging AI 2024 (ADSMI@MICCAI, Oral). 3. Self-supervised ViT are Scalable Generative Models for Domain Generalization 		
	Sebastian Doerrich, Francesco Di Salvo, Christian Ledig Medical Image Computing and Computer Assisted Intervention Society 2024 (MICCAI).		
	4. An Embedding is Worth a Thousand Labels Francesco Di Salvo, Sebastian Doerrich, Ines Rieger, Christian Ledig		
	Under review at the International Journal of Computer Vision (IJCV).		

Experience	AIKO Space	Turin, Italy	
	• Deep Learning Engineer Intern	Oct. 2021 - Jan. 2022	
	– <i>Topic:</i> Monocular Visual Odometry in planetary-like environments.		
	- Improved rotation error by 27% through image preprocessing.		
Teaching	University of Bamberg		
LACHING	Thesis supervision $-2 \times$ Master's, $1 \times$ Bachelor's		
	Mathematics in Machine Learning	Summer 2023, 2024	
	Robust Machine Learning – Master's project	Winter 2023, 2024 Summer 2024	
	Deep Learning	Winter 2025, 2024 Summer 2024 Winter 2023	
	Deep Learning	Willer 2025	
ATTENDANCE	Mediterranean Machine Learning Summer Scho	ol Milan, Italy	
	– Hosted by Google and Google DeepMind.	Sept. 2024	
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Community	Lead The Future, Member	Sept. 2023 - Present	
	- Among the few Italian students selected to be mentees for LeadTheFuture, a leading		
	mentorship non-profit organization for students in ST	TEM, with acceptance rate $< 20\%$.	
	Omdena \times Symbaiosys , Volunteer Machine Learnin	g Engineer Apr. 2021 - Jun. 2021	
	– Designed predictive models for quantifying the impact of forest restoration projects.		
	– Team leader of the data acquisition pipeline, with m	ore than 20 volunteers.	
	Vivere Ingegneria	Sept. 2018 - July 2020	
	– Mentored and trained incoming freshmen for their admission exams.		
	- Conducted monthly tutoring classes with 50+ students in Linear Algebra and Calculus.		
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TECHNICAL PROFICIENCY	Programming		
I ROFICIENCI	Python [*] , MATLAB, C++		
	Software / Framework		
	$PyTorch^*, TensorFlow, Scipy^*, Scikit-Learn^*, OpenCV, Wandb^*, L\!\!AT_E\!X^*$		

 (\ast) implies a sufficient level of expertise.