



Experience

 **Address:**
Cosenza – 87100 – Italy

 **Phone:**
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 **E-mail:**
lsn.qrt@gmail.com

DLVSystem

remote

Data Scientist

October 2020 - Currently

Implementation of a *computer vision* model to detect objects for *quality compliance check*, achieving 95.4% of mAP and 93.5% of mAR. Deploy the model in a production environment.

Predict the infection rate probability, in a retrospective study involved 600 patients of Policlinico di Bari, with *machine learning* algorithms achieving an overall accuracy of 94%, 93% of f1-score for patients without infections and 94% of f1-score for patients with infections.

Predict the region of a possible water leakage, in a small district of Catanzaro city, with *machine learning* achieving 64% accuracy.

Forecast the trend of earthquake sensor with *neural networks* achieving (normalized) MAE of 0.48.

Technologies: Python, Tensorflow, Keras, Pytorch, Scikit-learn, Pandas, Seaborn, Networkx, Docker, Tensorflow Serving.

Fondazione IRCCS Istituto Nazionale dei Tumori di Milano

remote

Data Science intern

May 2022 – Currently

Develop a pipeline to extract *radiomics features* from CT images of 184 patients and combine with *clinical features*. Use *machine learning* algorithms to evaluate the efficiency of immune therapy for oncological patients achieving an accuracy of 73% on Disease Control Rate outcome.

Technologies: Python, Pyradiomics, Pytorch, Pandas.

Università della Calabria

Cosenza, Italy

Research fellow

November 2020 – October 2021

Research carried out in the Department of Mathematics and Computer Science involves to implementing algorithms of neuro-symbolic artificial intelligence that combine Deep Learning and Deductive Logical Reasoning techniques. The research fellow was funded by the PON MISE MAP4ID project "Multipurpose Analytics platform 4 Industrial Data", whose scientific director is Prof. Nicola Leone.

Technologies: Python, Tensorflow, Keras, Answer Set Programming.

Healthy Reply, co. of Reply S.p.A.

Turin, Italy

ICT Consultant

January 2019 – August 2020

Develop RESTful services for telemedicine application to support the accessibility of information of centralized health services.

Implementation of *computer vision* model to estimate the 2D pose of patient during the telerehabilitation in real time.

Technologies: SpringBoot, PostgreSQL, Python, Flask, Tensorflow.

MolINETTE's Hospital

Turin, Italy

Intern

March 2015 – July 2015

During bachelor's degree I did an internship as clinical engineer at MolINETTE's Hospital in Turin.

Education

Sapienza Università di Roma

Rome, Italy

National PhD in Artificial Intelligence

October 2021 – Currently

The Italian National PhD Program in Artificial Intelligence (<https://www.phd-ai.it>) is made of 5 federated PhD courses that bring together 61 universities and research institutions.

Università degli Studi di Torino

Turin, Italy

Master of Science in Artificial Intelligence – 107/110

January 2019 – December 2020

Thesis: 2D Human Pose estimation with deep neural network for movement analysis in tele-rehabilitation context.

Supervisors: Prof. Davide Cavagnino, Eng. Saverio Losito.

Technologies: Python, Flask, Tensorflow.

Politecnico di Torino

Turin, Italy

Master of Engineering in Biomedical Engineering – 110/110 cum laude

April 2016 – October 2018

Thesis: 3D reconstruction of the centerline in angiographic images and evaluation of hemodynamic parameters in patient-specific geometry.

Supervisors: Prof. Filippo Molinari, Prof. Diego Gallo and Eng. Nicola Michielli.

Technologies: Matlab, VMTK, SimVascular, ParaView.

Politecnico di Torino

Turin, Italy

Bachelor of Engineering in Biomedical Engineering – 105/110

September 2012 – March 2016

Liceo Scientifico Statale Pitagora di Rende

Cosenza, Italy

High school diploma – 100/100

September 2007 – June 2012

Volunteering

Plastic Free Onlus

Italy

Involve 150+ people in several plastic collection events. Raise awareness about plastic overconsumption

November 2020 – Currently

AVIS: Associazione Volontari Italiani del Sangue

Italy

March 2021 - Currently