Leonardo **Saccotelli**

Research Collaborator · Computer Scientist · MSc Student in Artificial Intelligence

LeonardoSaccotelli | leonardo-saccotelli

Summary

Research Collaborator at Ocean Predictions and Applications Division of Centro Euro-Mediterraneo sui Cambiamenti Climatici (CMCC) Foundation in Lecce, Italy since March 2022. He holds a bachelor's degree in Computer Science and Technology for the Development of Software from University of Bari. His main skills are based on artificial intelligence and machine learning, as well as software engineering and development of complex software system. He has knowledge about methods and technologies for the development of relational and no-relational database, big data analysis, data mining and machine learning. He completed a 4-month internship at the National Research Council (CNR-STIIMA) during which he conducted his thesis work, further enhancing his skills in data mining and machine learning. From 2021 he's attending a master's degree in Artificial Intelligence from University of Bari. Since April 2021 he's working in the field of machine learning and artificial intelligence in general, on environmental and remote sensing data on developing new AI-based strategies.

Experience

Centro Euro-Mediterraneo sui Cambiamenti Climatici

Lecce, Italy

Researcher

Mar. 2022 - Present

- Currently, he's working on developing new AI-based strategies to predict the salt-wedge intrusion length and the net river release at the estuary mouth, as well as the impact of environmental variables on habitat selection of sea turtle (Caretta caretta) in the Mediterranean Sea using satellite-tracking.

University of Bari

Bari, Italy

Artificial Intelligence Student

Oct. 2021 - Present

- In the context of **Artificial Intelligence Master Degree**, in addition to general IT knowledge, he will acquire specific skills in the field of artificial intelligence, dealing with the design, development, integration, engineering and maintenance of particularly complex and innovative IT systems in all contexts of artificial intelligence use. The skills acquired concern the fields of knowledge representation, machine learning, vision, robotics, natural language processing, speech recognition, uncertainty management in reasoning, ontologies and semantic information processing, cooperation between intelligent agents.

National Research Council (CNR-STIIMA)

Bari, Bari, Italy

Data Scientist

Mar. 2021 - Feb. 2022

- In the context of curricular internship at the National Research Council (CNR-STIIMA), he conducted his thesis work, enhancing his skills in data mining and machine learning. The thesis carried out aims to identify if and how the geographical formation of the territory, anthropogenic pressure and climate change impact on the distribution and migration of cetaceans. Starting from a set of data collected by the research association Jonian Dolphin Conservation, predictive regression models have been built to estimate cetacean abundance.

Education

University of Bari "Aldo Moro"

Bari, Italy

BSc in Computer Science and Technologies for Software Production (italian course)

Oct. 2015 - Jun. 2021

Grade: 110/110 cum laude

University of Bari "Aldo Moro"

Bari, Italy

MSc in Artificial Intelligence (english course)

Oct. 2021 - Present

Skills

Technical Skills

Artificial Intelligence, Machine Learning, Data Mining, Software Engeenering

Computer Languages & Database Management System

C, Java, Python, SQL, Matlab, LaTeX, Mysql, MongoDb, Redis, Cassandra, Neo4j, PowerBI

Soft Skills

Accuracy, Assertiveness, Autonomy, Creativity, Decisiveness, Hardworking, Leadership, Learn Quickly & Continuously, Problem Solving, Responsibility, Self-Confidence, Self-Motivation

Known Languages

Italian (mother language knowledge), English (professional knowledge)

Certifications

Jul 2013	**Eipass Certificate**, European Informatics Passport	*Eipass*
Jul 2021	**Language Certificate - B1**, Trinity College London	*Trinity College*
Apr 2021	**Machine Learning Onramp**, MathWorks	*MathWorks*
Mar 2021	**Matlab Onramp**, MathWorks	*MathWorks*

Publications

Estuary salinity prediction using a Support Vector Machine based approach: a case study of the Po di Goro estuary

IEEE - Institute of Electrical and Electronics Engineers

L. Saccotelli, G. Verri, A. De Lorenzis, R. Caccioppoli, C. Cherubini, R. Crugliano, G. Dimauro, G. Coppini, R. Maglietta

Nov. 2023

Machine Learning to predict cetacean behaviour using social and environmental features

IEEE - Institute of Electrical and Electronics Engineers

C. Cherubini, L. Saccotelli, R. Caccioppoli, C. Fanizza, F. Santacesaria, R. Lecci, S. Causio, I. Federico, G. Cipriano, G. Dimauro, G. Coppini, S. Bellomo, R. Carlucci, R. Maglietta

Nov. 2023

Generalized additive models for Risso's dolphin group size estimation in the Gulf of Taranto (Northern Ionian Sea, Central-eastern Mediterranean Sea)Generalized additive models for Risso's dolphin group size estimation in the Gulf of Taranto (Northern Ionian Sea, Central-eastern Mediterranean Sea)

IEEE - Institute of Electrical and Electronics Engineers

R. Maglietta, L. Saccotelli, C. Fanizza, V. Telesca, G. Dimauro, S. Causio, R. Lecci, I. Federico, C. Cherubini, R. Crugliano, G. Cipriano, R. Carlucci, G. Coppini

Nov. 2022

Preliminary study on monitoring the loggerhead sea turtle (Caretta caretta) using satellite tracking in the Adriatic and Ionian Seas

IEEE - Institute of Electrical and Electronics Engineers

R. Maglietta, D. Piazzolla, V. Piermattei, E. Scagnoli, R. Lecci, M. Marcelli, M. Scuro, G. de Lucia, G. Marzano, F. De Franco, L. Saccotelli, R. Caccioppoli, G. Coppini

Nov. 2022

Environmental variables and machine learning models to predict cetacean abundance in the Central-eastern Mediterranean Sea.

Scientific Reports

R. Maglietta, L. Saccotelli, C. Fanizza, V. Telesca, G. Dimauro, S. Causio, R. Lecci, I. Federico, G. Coppini, G. Cipriano, R. Carlucci

Feb. 2023

Presentation

2023 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health

Malta

Author

Oct. 2023

- Estuary salinity prediction using a Support Vector Machine based approach: a case study of the Po di Goro estuary
- Machine Learning to predict cetacean behaviour using social and environmental features

2022 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health

Milazzo, Italy

Speaker

Nov. 2022

- Generalized additive models for Risso's dolphin group size estimation in the Gulf of Taranto (Northern Ionian Sea, Central-eastern Mediterranean Sea)Generalized additive models for Risso's dolphin group size estimation in the Gulf of Taranto (Northern Ionian Sea, Central-eastern Mediterranean Sea)