Francesco Bosso

Rome, Italy

francesco_bosso@outlook.com • +39 3469601901 • website

Experience

AI Research Engineer   Sep 2023 - Present
Leonardo - Aerospace, Defense and Security, Rome, Italy
Engaged at Leonardo's AI Lab, focusing on applying AI methods in the Aerospace and Defense sector. My contributions include developing various models for the Cognitive Radar domain. My research line involves audio, signal, and time series analysis for the *Feature Electronics and Sensing* division

Researcher - Unit JRC E.2   Apr 2023 - Sep 2023
European Commission, Ispra, Italy
Support to Unit JRC E.2, Technologies for Space, Security, and Connectivity. Application of AI methods in the context of the European Network for Critical Entities Resilience (ENCER) project to address Hybrid Threats. My contributions involved utilizing Natural Language Processing (NLP) techniques, such as Large Language Models (LLMs) and Named Entity Recognition (NER), to create text processing pipelines for detecting potential hybrid threats. (Letter of recommendation)

GeoAI Data Research Intern   Sep 2022 - Apr 2023
UNESCO IHE Delft, Delft, Netherlands
Contibution to the CLimate INTelligence (CLINT) project. The project's focus is on developing an AI framework for processing climatic big data to detect and attribute extreme events. My role involved applying statistical methods for feature selection and using Machine Learning algorithms (e.g., ELM, NN, and CNN) to predict extreme drought events. This research is pending publication and was presented at the European Geosciences Union (EGU) General Assembly 2023. (Abstract)

Geospatial Data Engineer   Mar 2022 - Sep 2022
Italian Ministry for the Environment, Rome, Italy
Development of the Italian Integrated Geospatial Information Framework (IGIF) in alignment with the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) guidelines. My responsibilities included conducting Geospatial Information Systems analysis, managing governmental-level relationships, and conveying the IGIF concept to governmental agencies. Additionally, a proof of concept for IGIF's development approach was presented to the head of the technical secretary of the Minister, Dr. Tomellini Renzo. (Letter of recommendation)

Education

Geoinformatics Engineering - M.Sc. [ENG]   2020 - 2022
Politecnico di Milano, Milan, Italy
Grade: 110 cum Laude (Letter of recommendation)

Skills

AI-Related Skills: Artificial Intelligence, Machine Learning, NLP, Uncertainty in AI, Soft Computing

Geospatial Data-Related Skills: Earth Observation, Geospatial Data Analysis, GNSS, Remote Sensing, Synthetic Aperture Radar, Optical Imaging

IT-Related Skills: Linux, Python, GIT, SQL, SLURM, JavaScript, TensorFlow, PyTorch

AI Specializations: AI4Climate, AI4Defence, AI4Space

Languages

Italian: Mother tongue   English: C2   Spanish: B1