

DOMIZIANA CATALANO

AI Research Fellow

@ domicata4@gmail.com 📍 Rome, Italy

Technology enthusiast, interested in Artificial Intelligence, in particular machine learning and deep learning for computer vision.

EXPERIENCES

AI Research Fellow

Leonardo

📅 Jan 2021 – now 📍 Genoa, Italy

Research Fellow in Leonardo applied AI research lab with a focus on computer vision (text detection and scene text recognition) exploiting the computational power of davinci-1 HPC. I have also worked on a NLP project about domain-specific Semantic Text Similarity and Named Entity Recognition. I had the chance to participate to workshops and writing proposals for European calls.

IT Consultant

Indra

📅 May 2018 – Sep 2018 📍 Rome, Italy

Consultant developing TIBCO solutions in BNL BNP Paribas headquarters in Rome.

EDUCATION

MSc in Artificial Intelligence and Robotics

Sapienza Università di Roma

📅 Sep 2018 – Oct 2020 📍 Rome, Italy

Thesis on computer vision: Deep Learning methods for deep-fake video detection.

TIBCO and CRM Training Course

Indra Academy

📅 Mar 2018 – Apr 2018 📍 Rome, Italy

Bachelor's Degree in Computer Science and Automatic Engineering

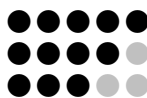
Sapienza Università di Roma

📅 Sep 2014 – May 2018 📍 Rome, Italy

PROGRAMMING SKILLS

Python, Keras

Java, HTML, Javascript, Pytorch Lightning, Git
C, Pandas, Tensorflow, Matlab, TIBCO



TECHNICAL SKILLS

- Machine Learning
- Deep Learning
- Computer Vision
- Generative Models
- Scene Text Recognition
- Text detection
- Natural Language Processing
- Internet of Things
- Human Robot Interaction
- Planning

PROJECTS

TripPlanner

- Android app that helps you find and manage flights. You can choose fixed days or a window of time and it will find the cheapest price combination. You can buy tickets, save flights and check the weather at the destination.

Word Sense Disambiguation System

- Keras implementation of a WSD system to assign the correct sense to a word in a sentence.

Clever Weather

- IoT system where a RIOT-OS app collects data from sensors and sends them to an Azure IoT Hub using MQTT-SN and MQTT protocol.

User Activity Recognition

- Azure webapp that uses the accelerometer to identify the user activity and sends data to Azure IoT Hub.

Talking Chalks

- IoT system that can be used in a museum. It can help visitors during the tour providing information about the museum and the artworks. A smartband with the most suitable profile will be provided to each visitor, so that can everyone can have a customized experience.

Customer service in cinema with Pepper

- Pepper robot can help customers providing info and helping them reserving seats. It can also collect film reviews and entertain people.

DeepFake detector

- Design and implementation of two methods that detect deepfake videos using state-of-the-art deep learning techniques.

Scene Text Recognition

- Creation of an AI system to detect text regions in in-the-wild images and to perform text super resolution to improve text recognition.

LANGUAGES

Italian (native) English (proficient)

SOFT SKILLS

Strategic thinking Teamwork
Research

INTERESTS

Reading Music Exhibitions Gym