

# Donato Meoli

COMPUTER SCIENTIST · MSC STUDENT IN ARTIFICIAL INTELLIGENCE

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“Dignity does not consist in possessing honors, but in deserving them.” ARISTOTELE

## Summary

Computer Scientist & Artificial Intelligence Student at University of Pisa. Nerd who loves Linux and clean code. Interested in devising a better problem solving method for challenging tasks, and learning new technologies and tools if the need arises.

## Work Experience

### Exprivia S.p.A.

Molfetta, Bari, Italy

AI ANALYST DEVELOPER

Sept. 2018 - Feb. 2019

- In the context of **Industry 4.0** for the *Predictive Maintenance* scenario, I deployed as a Docker container an end-to-end Machine Learning platform for Multiple Multivariate Time Series Prediction from extraction of simple statistical features (eg. means, standard deviations, maximum and minimum values, skewness, kurtosis, etc.) and typical domain type related features (eg. Fourier transform, etc.) to model-building to predictions. This platform has two main components: a web frontend written in JavaScript that allows interactive exploration of machine learning pipeline and a backend written in Python and composed by Cesium ML algorithms for time-series inference (eg. Random Forest, Linear Regression, etc.) and a Long Short Term Memory (LSTM) Recurrent Neural Network (RNN) model trained in Keras.
- In the context of **Smart City** for the *Smart Bins* scenario, I trained a Convolutional Neural Network (CNN) for the recognition of waste to be differentiated into paper, plastic, glass or undifferentiated and I deployed as a Docker container in TensorFlow Serving to made it available through RESTful API.
- In view of the participation at the **Mobile World Congress 2019** in Barcelona I deployed in TensorFlow Serving a pre-trained object detection model for the real-time recognition and counting of people present on all Exprivia S.p.A. stands.

## Education

### University of Bari “Aldo Moro”

Bari, Italy

BSC IN COMPUTER SCIENCE (ITALIAN COURSE)

Oct. 2014 - Apr. 2018

Grade: 110/110 cum laude

### University of Pisa

Pisa, Italy

MSC IN ARTIFICIAL INTELLIGENCE (ENGLISH COURSE)

Oct. 2018 - Present

## Skills

### 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)

### Sector Knowledge

ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, DEEP LEARNING, SOCIAL NETWORK ANALYSIS, KNOWLEDGE ENGINEERING, EXPERT SYSTEMS, SOFTWARE ENGINEERING, RELATIONAL & NoSQL (DOCUMENT AND GRAPH ORIENTED) DATABASES, OBJECT-ORIENTED PROGRAMMING (OOP), LOGIC PROGRAMMING, FUNCTIONAL PROGRAMMING

### Operating Systems

LINUX DEBIAN-BASED DISTROS, WINDOWS

## Computer Languages

C, C++, JAVA EE, JAVA FOR ANDROID, PYTHON, MYSQL, CYPHER, MATLAB, CLIPS, JAVASCRIPT, LATEX

## Known Technologies

ECLIPSE IDEs, JETBRAINS IDEs, GIT, MAVEN, TRAVIS CI, MONGODB, NEO4J, KERAS

## Projects

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### BeerEX

BEER EXPERT SYSTEM IS A RULE-BASED EXPERT SYSTEM, AVAILABLE AS TELEGRAM BOT, WHICH SUGGESTS A BEER TO DRINK.

*CLIPS, Python*

*github.com/DonatoMeoli/BeerEX*

### BSc Thesis

SOCIAL MEDIA ANALYSIS FOR THE DISCOVERY OF INTERACTION PATTERNS.

*Java*

*github.com/DonatoMeoli/SocialMediaDiscovery*

### DS-SRS

DESCRIPTIVE STATISTICAL - SIGNATURE RECOGNITION SYSTEM IS A RECOGNITION SYSTEM FOR ONLINE HANDWRITTEN SIGNATURE VERIFICATION BASED ON A DESCRIPTIVE STATISTICAL APPROACH.

*Matlab*

*github.com/DonatoMeoli/DS-SRS*

### CranSearchEngine

CRANFIELD SEARCH ENGINE IS A SEARCH ENGINE FOR THE CRANFIELD COLLECTION.

*Java*

*github.com/DonatoMeoli/CranSearchEngine*

### A\* Search

A\* SEARCH IS AN IMPLEMENTATION OF THE A\* HEURISTIC GRAPH SEARCH ALGORITHM.

*C++*

*github.com/DonatoMeoli/AStarSearch*

### WS4J

WORDNET SIMILARITY FOR JAVA PROVIDES AN API FOR SEVERAL SEMANTIC RELATEDNESS/SIMILARITY ALGORITHMS.

*Java*

*github.com/DonatoMeoli/WS4J*

### WNAffect

WORDNET AFFECT ALLOWS TO FIND THE EMOTION OF A GIVEN WORD.

*Java*

*github.com/DonatoMeoli/WNAffect*

## Certifications

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Jun 2013 **ECDL**, European Computer Driving Licence

*AICA*

Jun 2014 **CCNA Discovery**, Networking for Home & Small Businesses

*Cisco*

May 2014 **BLSD**, Basic Life Support & Defibrillation

*IRC*

Oct 2018 **1st lvl. FIPE Personal Trainer**, National Strength and Conditioning Association

*FIPE*

## Organizations

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### AI\*IA

ITALIAN ASSOCIATION FOR ARTIFICIAL INTELLIGENCE  
Member

*Sept. 2018 - Present*