

Tommaso Castiglione Ferrari

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Job Experience

Heuro Labs GmbH - The Hague (NL) - Python Mid-Developer / Artificial Intelligence Developer

April 2020 - ongoing

As a Python mid-level developer, I worked on the implementation of a system which extracts information and computes analysis of code repositories. As an Artificial Intelligence developer, I built various NLP-based tools for analyzing words and phrases grammatical and syntactic correctness, and for generating non-existent code documentation and commit messages.

Istituto Italiano di Tecnologia - Genoa (ITA)/Milan (ITA) - Artificial Intelligence Apprentice Researcher

April 2019 - September 2019

As an apprentice at the IIT, I wrote a peer-review paper regarding previously adopted state-of-the-art Artificial Intelligence implementations and sensory feedback in prosthesis. Furthermore, I theorized future interesting developments of Artificial Intelligence-based systems for prosthesis..

M.A.C. Formazione - Milan, Italy - Python Teacher

April 2019 - April 2020

As a Python teacher at M.A.C. Formazione S.r.l. Courses, I taught the following courses: Basic and Advanced Python Programming, Machine Learning and Data Analysis in Python.

Heuro Labs GmbH - Berlin (DE)/Milan (ITA) - Artificial Intelligence/C++ Software Developer

June 2018 - October 2018

As a junior developer at Heuro Labs GmbH, I implemented the support of various numerical types and optimized time-series data computation - for prediction and data representation - into the company's pre existing Neural Network system.

Heuro Labs GmbH - Berlin (DE)- Artificial Intelligence/C++ Intern Software Developer

September 2016 - January 2017

As an intern at Heuro Labs GmbH, my work focused on the development of mathematical tools to integrate in the company's Neural Network system. Furthermore I developed several Neural Network models - both MLP and LSTM based - task-oriented.

Technical skills

- Artificial Intelligence:
 - Machine Learning
 - Deep Learning
 - NLP
 - Knowledge Representation
- Programming Languages:
 - Python
 - C/C++
 - SQL
 - Java
 - C#
 - Html/CSS/JQuery
- Neuroscience and Prosthetics
- Embedded Systems and IoT

Certificates

MENSA: Mensa member since 05/2019

TOEFL ibt: 105/120 - 05/05/2018

Cervantes: spanish certification

ECDL: European Computer Driving License

Compostela: 1007 km Seville - Santiago de Compostela by foot

Recommendation Letters

Professor Matteo Matteucci: professor at Politecnico di Milano.

Professor Barbara Pernici: professor at Politecnico di Milano.

Mohamed Sayed: Founder and CEO of Heuro Labs GmbH.

Education

Vrije Universiteit Amsterdam – Amsterdam (NL)– Master Degree in *Artificial Intelligence: Cognitive Science*

September 2020 - July 2022

MSc in *Artificial Intelligence* with a specialization in *Cognitive Science* offered by *Vrije Universiteit Amsterdam* in a joint programme with *Universiteit van Amsterdam*

Politecnico di Milano – Milan (ITA)– Bachelor Degree in *Engineering of Computing Systems*

September 2014 - February 2020

Saint Benedict at Auburndale – Memphis (USA) – *High School*

September 2012 - June 2013

Istituto Zaccaria – Milan (ITA)– *High School*

September 2009 - June 2014

Software Projects

“Raw Deep Learning – RDL” – Python

October 2020 - ongoing - <https://github.com/drasgo/Raw-Deep-Learning>

Framework for dynamically creating neural networks, training and testing them.

“SAT-Solver” – Python

September 2020 - October 2020 - <https://github.com/drasgo/SAT-Solver>

System implemented for solving generic SAT problems using various methods – namely sequential DPLL or CDCL, or parallel DPLL or CDCL, used in combination with one of the numerous branching techniques implemented –.

“VENN – Visual Editor of Neural Networks” – Python

October 2019 - March 2020 - [drasgo/VENN: Visual Editor tool for Neural Network development, training, and deployment](#)

Tool for visually creating neural networks, exporting and running the structure in TensorFlow, Pytorch and/or Keras.

“Low-cost brain waves classifier” – Python

April 2018 - June 2018 - [drasgo/EEG_Analyzer: EEG Analyzer: Using EEG, wavelets and neural networks, this program will use human brain waves as actuators](#)

Tool for acquiring brain waves –using OpenBCI – and computing them using a Neural Network model.

Languages

- Italian: native language
- English: excellent
- Spanish: good

Frameworks

- Python:
 - Tensorflow
 - Pytorch
 - Keras
 - Pyqt
 - Pyjsl
 - Numpy
 - Matplotlib
 - Flask
- C/C++:
 - MKL
 - Boost
- SQL:
 - Mysql

Academic Papers

“Smart Prosthesis” – *Medical prosthesis / Artificial Intelligence*

Publishing

Peer-review of the academic state-of-the-art of “smart” prosthesis.

“Survival Egoism – We are, They will be” – *Philosophy / Artificial Intelligence*

Published - [Tommaso Castiglione Ferrari, Survival Egoism: We are, They will be](#)

Stratification of the human psyche, seen through the concept of survival egoism, followed by a first glimpse of a stratified artificial mind .

“Ars Informatica” – *Philosophy/Computer Technology*

Published - [Tommaso Castiglione Ferrari, Ars Informatica](#)

Reflection on the classification of computer technology: Science vs Manufacture vs Art .