

ALESSANDRO FAGNANI

Machine Learning Engineer

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WORK EXPERIENCE

Machine Learning Engineer

DataHow

February 2020 – ... Zurich, Switzerland | Munich, Germany
Focus on Digital Twin solutions and transfer learning methods.

Machine Learning and Software Engineer Intern

DataHow

July 2020 – February 2020 Zurich, Switzerland | Munich, Germany
Implementation of analysis software and machine learning models for the automation of pharmaceutical and chemical processes.

International Graduate Engineer

The AKKAdemy

March 2020 – April 2020 Geneva, Switzerland
International consultant program for AKKA Germany.

Master Thesis

Zeiss

April 2019 – October 2019 Munich, Germany
Implementing a deep learning model to automatically detect and segment retinal layers.

Chess Teacher

Circolo Scacchistico Bolognese

2012 – 2017 Bologna, Italy
Chess teacher for elementary schools and individual classes.

EDUCATION

M.Sc. in Computer Science

University of Pisa

October 2017 – December 2019 Pisa, Italy
Grade: 110/110. Specialization in Artificial Intelligence.
Thesis title: Deep learning-based segmentation of retinal layer in intraoperative Optical Coherence Tomography.

Erasmus Program

Technical University of Munich

Oct 2018 – Oct 2019 Munich, Germany
Last year of the master and thesis preparation.

B.Sc. in Computer Science

University of Bologna

September 2014 – October 2017 Bologna, Italy
Grade: 110/110.
Thesis title: Study and experiments on semantic segmentation techniques.

PUBLICATIONS

Papers

- M. Resta, D. Arioli, A. Fagnani, and G. Attardi. "Transformer Models for Question Answering at BioASQ 2019". In: Mar. 2020, pp. 711–726. ISBN: 978-3-030-43886-9. DOI: 10.1007/978-3-030-43887-6_63.

CODE SET

Python MATLAB C++ C Bash
Git Java SQL PHP JavaScript
HTML/CSS LaTeX

ML FRAMEWORKS

TensorFlow Keras scikit-learn
NumPy Pandas MATLAB Toolbox

CHALLENGES

BioASQ 7b Challenge

BioASQ

March 2019 – May 2019
2nd place in one of the 4 tasks and 3rd place in the overall ranking of the BioASQ 7b, an NLP question answering challenge.

SoBigDataSoccer Challenge

SoBigData

Oct 2019
Qualified for the final event: a challenge of 30 hours on the analysis and prediction with soccer data.

LANGUAGES

Italian ●●●●●●●●
English ●●●●●●●●
German ●●●●●●●●

RELEVANT PROJECTS

BCI for controlling a robot

Technical University of Munich

 June 2019 – July 2019

 Munich, Germany

Moving a robot through a circuit given EEG signals.

CoLAR

Technical University of Munich

 November 2018 – December 2018  Munich, Germany

A mobile application in order to simulate colorblindness and support colorblind people in daily life tasks.

FridgePi

University of Pisa

 May 2018 – June 2018

 Pisa, Italy

A fully automated monitoring system for fridges.

MISCELLANEOUS



IELTS English Level 7.5

Certification achieved in 2016.



Certified FSI Chess Teacher

Certification achieved in 2011.



Italian Team Chess Champions U16

Awarded in 2006.



Italian Chess Champion U10

Awarded in 2005.