ALESSANDRO FAGNANI

Machine Learning Engineer

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Munich, Germany github.com/mellifluo/ % mellifluo.github.io





WORK EXPERIENCE

Machine Learning Engineer

DataHow

♀ Zurich, Switzerland | Munich, Germany

Focus on Digital Twin solutions and transfer learning methods.

Machine Learning and Software Engineer Intern **DataHow**

♀ 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.

Chess Teacher

Circolo Scacchistico Bolognese

2012 - 2017

Pologna, Italy

Chess teacher for elementary schools and individual classes.

EDUCATION

M.Sc. in Computer Science

University of Pisa

Cotober 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.

Master Thesis

Zeiss

April 2019 - October 2019

Munich, Germany

Implementing a deep learning model to automatically detect and segment retinal layers.

Erasmus Program

Technical University of Munich

m Oct 2018 - Oct 2019

Munich, Germany

Last year of the master and thesis preparation.

B.Sc. in Computer Science

University of Bologna

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: Machine Learning and Knowledge Discovery in Databases. Ed. by P. Cellier and K. Driessens. Cham: Springer International Publishing, 2020, pp. 711-726. ISBN: 978-3-030-43887-6.

</> CODE SET

MATLAB С Bash Pvthon C++ SQL JavaScript Git Java PHP HTML/CSS LaTex

ML FRAMEWORKS

TensorFlow Keras scikit-learn 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** 00000 German

RELEVANT PROJECTS

BCI for controlling a robot Technical University of Munich

multiple June 2019 - July 2019

Munich, Germany

Moving a robot through a circuit given EEG signals.

CoLAR

Technical University of Munich

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.