Adriano Cardace

Machine Learning/Deep Learning Engineer

Reggio Nell'Emilia, Italy

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Education

University of Bologna   *Italy, BO*

M.S. in Computer Engineering, 110L/110 - Magna cum Laude   *Sep 2017 - Mar 2020*

- **Eindhoven University of Technology**, Eindhoven, the Netherlands — *(Erasmus) Fall semester 2018/2019*

University of Bologna   *Italy, BO*

B.S. in Computer Science, 110L/110 - Magna cum Laude   *Sep 2014 - Oct 2017*

- **University of Bergen**, Bergen, Norway — *(Erasmus) Fall semester 2016/2017*

I.I.S. Blaise Pascal   *Italy, RE*

High School, computer science, 82/100   *Sep 2008 - Jul 2013*

Experience

CVlab, University of Bologna   *Bologna, BO*

Research Fellow   *May 2020 - current*

- I am currently involved in several projects regarding Transfer Learning.

Injenia   *Bologna, BO*

Deep Learning Engineer   *Sep 2019 - Dec 2019*

- I worked at Injenia as a Deep Learning engineer. Here, I developed several architectures using Tensorflow 2.0 both in the field of Computer Vision and Natural Language Processing. Leveraging on the Google Cloud Platform, I had the opportunity to familiarize with advanced tools useful for the entire pipeline of a real Machine Learning project.

CellularLine   *Bologna, BO*

IT infrastructure support   *Sep 2013 - Mar 2014*

- My main role was to support the network infrastructure system. I also developed and administrated an internal database.

Certifications and Awards

Coursera

Google Cloud Platform Big Data and Machine Learning Fundamentals   *2019*

University of Bologna

Winner of "Study Grants for deserving students 2018/2019"   *2019*

IELTS

English level C1 (Listening: 7.5, Reading: 8.0, Writing: 6.5, Speaking: 7.0)   *2017*

Projects

Learning Features Across Tasks and Domains

- This is my master thesis, in which I studied and developed a Domain Adaptation algorithm in the field of Semantic Segmentation.

Product recognition with YOLO

- In this project I used YOLOv3 and traditional techniques for object detection such as SIFT, to build a system able to recognize products on store shelves. The task was challenging since the dataset contains only one image for each product.

Semantic Understanding of Urban Street Scenes

- I implemented a neural network able to solve reasonably well the task of semantic segmentation on the Cityscapes dataset. In particular, my implementation is based on two popular architectures called UNET and DeepLabV3

Parallel Biham-Middleton-Levine model implementation

- This is my bachelor thesis project. I developed a parallel implementation of the Biham-Middleton-Levine model. It is all written in C and executed on a Parallella Board, which is a small parallel supercomputer.

JaeOS16

- This is my project for the Operating System class. It consists of a mini kernel implementation for an ARM processor simulator using the C programming language.

Skills

Expertise	Deep Learning, Machine Learning, Computer Vision, Natural Language Processing, Parallel Programming
Languages	Python, C, Java, Prolog, Swift, Go, Unix shell scripting, SQL, Javascript, HTML, CSS
Libraries	Pytorch, Tensorflow, Keras, Numpy, scikit-learn, OpenCV, Dataflow, BigQuery, openMP
Cloud infrastructures	GCP, AWS
Productivity Tools	Git, LATEX
Operating systems	Linux

Interests

Sports (Football, F1) and Fitness. In particular, I love running, CrossFit, and Yoga. I am interested in nutrition and health in general. I love reading books and listening to music. Fascinated by all types of science.