Enrico Damini

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Summary

I'm a final year Computer engineering student at the University of Bologna and I'd describe myself as a creative person, flexible and able to adapt to changing priorities and maintain a positive attitude.

Over the last year, I've significantly increased my interests in Data Mining and Artificial Intelligence, which has allowed me to discover many fascinating topics.

Currently, I've been working on two projects: the first one is about Apache Spark for Machine Learning (MLlib), while the second activity is about defining a business model in terms of data monetization through IoT, in a B2B environment.

Experience

Project work on Data Mining (Clustering and data analysis of vehicle traffic) January 2018 - February 2018 (2 months)

The aim of this activity was to become familiar with the most used data mining Python libraries (such as Pandas, Scikit-learn, Matplotlib and NumPy) by working on a project which goal was to find interesting patterns in a large dataset. In order to do that I needed to sample the data, to transform the data into useful structures, to mine the meaningful information and finally to cluster the data.

The considered dataset was called Trap-2017, which was made by the traffic police after a contest they held, and it contains the plates of cars that have driven through a motorway section.

Project Activity on Artificial Intelligence
October 2017 - December 2017 (3 months)

The aim of the activity was to gain confidence with planning algorithm (STRIPS) by adding some nice features to NAO Robot.

More specifically, the activity consisted in acquiring, cleaning up, analyzing and transforming the speech, in order to make NAO Robot able to understand what people say and to react consistently. Firstly, I had developed the software by using a simulation environment (Choreographe framework and Webots), secondly, once achieved a good stability and reliability of the developed software, I had the opportunity to work directly with the Robot at DISI (Dipartimento di Informatica - Scienza e Ingegneria).

Main frameworks and libraries used: Google Speech Recognition API, nltk, naoqi SDK

Internship at Center for Research on Complex Automated Systems (CASY) for SHERPA project at University of Bologna
May 2015 - November 2015 (7 months)

The project was held at CASY, which is a research center of the University of Bologna. The first main goal of this activity was getting familiar with the framework ROS, which is a set of software libraries and tools that help you build robot applications.

Secondly, once I had gained a good level of confidence with ROS environment by working on some little projects, I've started to deal with the main topic of my thesis, which is the development of an autonomous navigation algorithm based on GPS data. In addition, I developed a ground control station (a Java application) that allowed to have perfect control of the robot movements.

Education

University of Bologna
Bachelor degree, Computer Engineering, 2013 - 2016
Thesis title: Implementation of an autonomous navigation algorithm and software development of a Ground Control Station.

Experiences abroad

Shane Global Language Centre - Hastings, February 2016 - June 2016
School of English

> After my Bachelor's graduation, I seized the amazing opportunity of spending 5 months in England (Hastings) in order to develop my spoken English. Not only did I make significant improvements with my English, but I also made new friends who I can now regularly practice my English with.

Foreign language skills

Native language: Italian

IELTS Test date: 10 March 2018, Overall Band Score: 7.0
TRFN: 17IT018431DAME010A

	Listening	Reading	Writing	Spoken interaction	Spoken production
English	7.0	7.5	6.0	7.0	7.0
CEFR	C1	C1	B2	C1	C1