Vincenzo Lavorini

DATA SCIENTIST

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Webpage: https://vlavorini.github.io/

CONTACT

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Nationality	Italian
Date of birth	December 2, 1981
Gender	Male

EXPERIENCES

Oct 2017 - Present
Data Scientist
@ Natural Cycles

Research and analyze company data, working with marketing, business and product teams by fetching and analyzing relevant datasets.

Main outcomes:

- Deployment of optimization algorithms based on Bayesian methods;
- Development and deployment of churning prediction algorithms combining several Machine Learning techniques: Boosted Classification Trees (XGBoost), non-linear Dimensionality reduction (UMAP) and soft clustering (HDBScan) - supervisor of two junior Data Scientists

08/2016 – 09/2017
Data Scientist
@ (self employed)

Development of Deep Learning models with TensorFlow and Keras:

- computer vision: object classification, detection and counting (CNN), image improvement (SuperResolution)
- classification models based on representation of objects with semantic correlation in multi dimensional space and analysis (entity embeddings, RNN)

01/2016 – 07/2016
FS developer/Data Scientists
@ CERN

Designed and development of a web application for QA/QC purposes.

Based on Node.js as core framework, with Angular.js as frontend, the application includes Data Analysis routines:

- QA of hardware components via Computer Vision method (OpenCV / Python);
- Automatic Report creator;

07/2014 – 06/2016
Data Scientist
@ CERN

Study and development monitoring tools for data management purposes, with web pages as GUI.

12/2013 – 06/2014
System engineer
@ INFN

I've been part of the team which set up a Data Center for the ReCaS project (22k cores, 14 PB storage).

Main outcomes:
- Study and development of users classification, based on their resources usage.
- Study of resources pre-allocations based on the classification outcome.

02/2013 – 06/2013
Physicist
@ CERN

R&D on a sub-nuclear particle detector.

Main outcome: Development of a model to simulate the behavior of the detector.

CONTINUOUS EDUCATION

09/2018 Russian's HSE

Bayesian methods for Machine Learning
Coursera License CZ5XFYEMFS3V

10/2017 Stanford University

Structuring Machine Learning Projects
Coursera License 6FFH8XNJ54R9

09/2017 Univ. Of Irvine

Managing Project Risks and Changes
Coursera License BAMQ8PW5BZG6

09/2017 Univ. Of Irvine

Budgeting and Scheduling Projects
Coursera License XDHF2L85WYEG

09/2017 Univ. Of Irvine

Initiating and Planning Projects
Coursera License FVJ98WDB6VR7

08/2016 Stanford University

Machine Learning
Coursera License DJUC43DU9NLH

FORMAL EDUCATION

2009 – 2012
Universita degli studi della Calabria (Italy)

Ph. D. In High Energy Physics
Thesis title: Study of the top quark differential cross section with the ATLAS detector at the LHC

2006 – 2009
Universita degli studi della Calabria (Italy)

Master's degree In High Energy Physics
Thesis title: Study of the top quark production with the ATLAS detector at the LHC

2006 – 2009
Universita degli studi della Calabria (Italy)

Bachelor degree Physics
Thesis title: Decay time of mu lepton in free and 1s bound states of aluminum

LANGUAGES

Mother tongue *Italian*

Foreign languages *English: c1*
French: c2

IT PROFESSIONAL SKILLS

Operating systems *Linux, Mac OS X*

System development *Python, Java, Javascript (NodeJS), Bash, C++*

Data Science/ML *Scikit-Learn, Pandas, Numpy, Pytorch*

Visualization tools *Matplotlib, Seaborn, Bokeh, Tableau*

Collaboration Tools *Git, SVN, Google Docs, Slack, Jira, Trello*

PROFESSIONAL HIGHLIGHTS

I like to go beyond the expectations, in order to reach goals at the best;

I keep myself updated for new tools and techniques, also by taking on-line courses;

I love to take initiatives;

I get actively involved in open source projects for code and bugs solving;

I have a deep knowledge of Linux O.S. networking and Cloud Computing

OTHER SKILLS AND HOBBIES

Writer on the online review "Towards Data Science";

Winner of a bronze medal in an international Deep Learning competition: "The Nature Conservancy Fisheries Monitoring" hosted by Kaggle.com