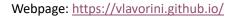
# Vincenzo Lavorini

# **DATA SCIENTIST**







## CONTACT

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Email 

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**Nationality** Italian

Date of birth December 2, 1981

Gender Male

#### **EXPERIENCES**

@ Natural Cycles datasets.

Oct 2017 - Present Research and analyze company data, working with marketing, Data Scientist business and product teams by fetching and analyzing relevant

#### 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

**Data Scientist** @ (self employed)

08/2016 - 09/2017 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 Designed and development of a web application for QA/QC

FS developer/Data purposes.

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

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

07/2014 - 06/2016 Study and development monitoring tools for data management purposes, with web pages as GUI.

@ CERN

12/2013 – 06/2014 I've been part of the team which set up a Data Center for the ReCaS System engineer project (22k cores, 14 PB storage).

@ INFN

02/2013 - 06/2013 R&D on a sub-nuclear particle detector.

Physicist Main outcome: Development of a model to simulate the behavior of

@ CERN the detector.

#### **CONTINUOUS EDUCATION**

09/2018 Bayesian methods for Machine Learning

Russian's HSE Coursera License CZ5XFYEMFS3V

10/2017 Structuring Machine Learning Projects

Stanford Coursera License 6FFH8XNJ54R9

University

09/2017 Managing Project Risks and Changes

Univ. Of Irvine Coursera License BAMQ8PW5BZG6

09/2017 Budgeting and Scheduling Projects

Univ. Of Irvine Coursera License XDHF2L85WYEG

09/2017 Initiating and Planning Projects

Univ. Of Irvine Coursera License FVJ98WDB6VR7

08/2016 Machine Learning

Stanford Coursera License DJUC43DU9NLH

University

#### FORMAL EDUCATION

2009 - 2012 Ph. D. In High Energy Physics

Universita degli studi Thesis title: Study of the top quark differential cross section with della Calabria (Italy) the ATLAS detector at the LHC

2006 - 2009 Master's degree In High Energy Physics

Universita degli studi Thesis title: Study of the top quark production with the ATLAS della Calabria (Italy) detector at the LHC

2006 - 2009 Bachelor degree Physics

Universita degli studi Thesis title: Decay time of mu lepton in free and 1s bound states della Calabria (Italy) 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, Bash, C++

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

Design Inkscape, GIMP, Adobe Photoshop, Adobe Premiere Pro, Adobe After Effects

#### PROFESSIONAL HIGHLIGHTS

OTHER SKILLS AND HOBBIES

I integrate easily new developers team.

Writer on the online review "Towards Data Science";

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

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

I love to take initiatives for new interesting ways of development and techniques.

I get actively involved in opensource projects for code and bugs solving