

Vincenzo Lavorini

DATA SCIENTIST



<https://www.linkedin.com/in/vincenzo-lavorini-05224ab0/>



<https://github.com/vlavorini>



<https://medium.com/@vincenzo.lavorini>

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



CONTACT

Address 247 Ch. Pre de Planche
01280 Prevessin-Moens
France

Telephone ☎ +33 633 799 662

Email ✉ vincenzo.lavorini@protonmail.ch

Nationality Italian

Date of birth December 2, 1981

Gender Male

EXPERIENCES

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

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 Development of Deep Learning models with TensorFlow and Keras:
Data Scientist
@ (self employed)

- 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 purposes.
FS developer/Data Scientists Based on Node.js as core framework, with Angular.js as frontend, the application includes Data Analysis routines:
@ CERN
 - 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.
Data Scientist
@ CERN
- 12/2013 – 06/2014** I've been part of the team which set up a Data Center for the ReCaS project (22k cores, 14 PB storage).
System engineer
@ 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 the detector.
@ CERN

CONTINUOUS EDUCATION

09/2018 ***Bayesian methods for Machine Learning***
Russian's HSE Coursera License CZ5XFYEMFS3V

10/2017 ***Structuring Machine Learning Projects***
Stanford University Coursera License 6FFH8XNJ54R9

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 University Coursera License DJUC43DU9NLH

FORMAL EDUCATION

2009 – 2012 Ph. D. In High Energy Physics

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

2006 – 2009 Master's degree In High Energy Physics

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

2006 – 2009 Bachelor degree Physics

Università degli studi della Calabria (Italy) 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, Bash, C++

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

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

PROFESSIONAL HIGHLIGHTS

I integrate easily new developers team.

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

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

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