

# Vincenzo Lavorini

## Lead Data Scientist

### Work experience

#### Data Specialist / MTF / Canton de VAUD Lausanne, Switzerland

Since March 2021

Lead migration to "data mesh" architecture to empower data consumers  
Migration of data pipelines to AirFlow  
Set up of a Data Catalog (DataHub)  
Improvement of data literacy across teams

#### Lead Data Scientist / Cor-E Toulon, France (remote)

From October 2020 to February 2021

Team management (2 DS, 1 DE, 2 SD)  
Technical debt mitigation (Migration to Kubernetes, ML models on KubeFlow)  
Feature engineering on energy price time series (daily mathematical modelling, clustering on the extracted parameters)  
Time series analysis and forecasting (XGBoost, Prophet)

#### Entrepreneurial essay / company not founded Genève, Switzerland

From September 2019 to February 2020

Study of a business opportunity in the logistic sector: use of crowdsourcing to dispatch goods

#### Senior Data scientist / Natural Cycles Stockholm, Sweden and Genève, Suisse

From October 2017 to August 2019

R&D on new products, ex:

- use of Temporal Convolutional NN on wearable devices (PyTorch)
- churning prediction and classification algorithms via semi-supervised learning (XGBoost, HDBScan clustering on features importance, deployment on GCP)

Algorithms optimisation  
Supervision of junior Data Scientists.

#### Entrepreneurial essay / company not founded Genève, Switzerland

From April 2017 to September 2017

Study of a business opportunity in the automotive sector: a "smart" windscreen

#### Data Scientist / Self Employed Geneva, CH

From August 2016 to March 2017

PoC development:

- Scene detection on Closed Circuit cameras (CNN, PyTorch)
- Profiling of users based on bank transactions (GloVe Embeddings in Poincaré hypersphere)

Teams selections.

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📍 Lausanne, CH

📅 Date of birth  
02/12/1981

🔗 <http://vlavorini.github.io>

### Skills

Data modelling

Data Architecture

Collaborative management

Agile product development  
(Git / Jira)

Python (expert), Java

Machine Learning  
(PyTorch, TensorFlow, SkLearn)

Business Intelligence tools  
(PowerBI, Grafana)

### Assets

Analytical thinking

Empathy

Design thinking

Business mindset

Challenge taker

## Work experience

### Data scientist and Full Stack Developer / [CERN](#) Meyrin, Suisse

From January 2013 to July 2016

- design and development of a web based data application;
- set up and optimization of datacenter resources allocation (clustering);
- R&D on a new particle detector

## Education

### Ph. D. in Physics and Quantum Technologies / [Università degli studi della Calabria](#) Cosenza, Italie

From October 2009 to December 2012

In the same institution I got:

- Master's degree in High Energy Physics, 2009
- Bachelor's degree in Physics, 2006

## Additional education

### Hands On Essentials - Data Warehouse / [Snowflake Academy](#) on-line

March 2021

### Data Topology / [IBM via Coursera](#) on-line

March 2021

License PRR8VUM6UZ77

### Lightbend Data Engineering - Data Principles / [Lightbend Academy](#) on-line

August 2020

### Advanced Data Science Specialist / [IBM](#) Coursera

From May 2020 to July 2020

License 67ZJ4DLVYK4J

### Createing and developing a Tech Startup / [HSE - Paris](#) Coursera

November 2019

License SXFUGJ6DX2LW

### Deploying microservices with Kubernetes / [IBM via Coursera](#) Coursera

December 2019

License RF8Y6W2BN73A

### Bayesian Methods for Machine Learning / [Higher School of Economics \(Russia\)](#) Coursera

From September 2018 to December 2018

License CZ5XFYEMFS3V

### Business Concept / [CTI](#) / [InnoSuisse](#) Genève, Switzerland

From February 2017 to July 2017

Crash course in entrepreneurship.

## Languages

### Italian

### English

### French

### Chinese

## Various


Member of the winning team of the "Influx Trust Global Hackaton - Geneva" (2017)

Winner of a Bronze Medal in the Machine Learning competition "The Nature Conservancy Fisheries Monitoring", hosted by Kaggle.com

Different publications, for an h-index of 99. Most of them within the ATLAS collaboration at the CERN.

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 @vlavorini

 @vincenzo-lavorini-05224ab0/