

Vincenzo Lavorini

Lead Data Scientist

Work experience

Data Specialist / [MTF](#) / [Canton de VAUD](#) Lausanne, Switzerland

Since March 2021

Lead innovation in Data-related subjects:

- Architecture migration to "data mesh"
- Migration of data pipelines to AirFlow
- Set up of a Data Catalog (DataHub)

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

From March 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.

Full Stack Data Scientist / [CERN](#) Genève, Switzerland

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

✉ vincenzo.lavorini@protonmail.ch

📍 Lausanne, CH

📅 Date of birth 02/12/1981

🔗 <http://vlavorini.github.io>

Skills

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

Languages

Italian



English



French



Chinese



🐙 @vlavorini

in @vincenzo-lavorini/

Voluntary experience

Lead Data Engineer / [India Excellence Forum](#) Remote

Since October 2021

Leading a team of 8 volunteers across 7 time zones to:

- gather unstructured data (PDFs, Images) about COVID19 infections
- analyse data, also with AI/Computer Vision to extract needed statistics
- publish a Dashboard on India Excellence Forum website

Vice President / [Gruppo Astrofili Menkalinan](#) Rende, Cosenza, Italy

From March 2006 to December 2012

Organisation of events related to observational astronomy:

- Events for the greater public
- lectures in High Schools

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.

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 on peer reviewed journals, for an h-index of 99. Most of them within the ATLAS collaboration at the CERN.