Vincenzo Lavorini

SENIOR 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

Telephone	☎ +33 633 799 662	+39 347 97 34 217
Email	✉ vincenzo.lavorini@protonmail.ch	
Nationality	Italian	
Date of birth	December 2, 1981	
Gender	Male	

EXPERIENCES

Oct 2017 - Present
Data Scientist
@ Natural Cycles – Geneva (CH)

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

Supervision of three junior Data Scientists.

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)
- Development of time dependent data extraction model based on dilated CNN

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

Consultant in the Artificial Intelligence / Machine learning sector: PoC development, teams selections.

Main outcomes:

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 – Geneva (CH)

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 – 01/2016	Study and development of monitoring tools for data management purposes, with web pages as GUI.
Data Scientist	
@ CERN – Geneva (CH)	

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).
Data Scientist	
@ INFN – Cosenza (IT)	

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	R&D on a sub-nuclear particle detector.
Physicist	Main outcome: Development of a model to simulate the behavior of the detector.
@ CERN – Geneva (CH)	

CONTINUOUS EDUCATION

09/2018 Higher School of Economics	***Bayesian methods for Machine Learning***
	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

06/2017	***Business Concept***
CTI-EPFL	

08/2016	***Machine Learning***
Stanford University	Coursera License DJUC43DU9NLH

FORMAL EDUCATION

2009 – 2012	***Ph. D. In High Energy Physics***
Universita 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***
Universita 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***
Universita 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, 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;

Entrepreneurial mindset;

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;

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" - https://medium.com/@vincenzo.lavorini;

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

To whom who concerns,
Kantar Group,
Casalecchio di Reno (BO - Italy)

Dear HR,

I built my professional background in an institution at the highest levels in big data technologies, the CERN. Work in such multi cultural and passionate environment, filled with the brightest brains I ever knew, founded my mindset: leverage on my passion to fulfill duties in the most efficient way.

My professional history makes me a strong contender for this position.

The mindset I have allows me to find the best way to lead a project to the best possible outcome given the resources available, in a clear and predictable way.

The experiences I acquired go from the extraction and processing of raw data from multiple and heterogeneous sources to the design and deployment of Data models using the latest Machine Learning techniques, passing by more traditional quantitative analysis.

All this made me the authority for any Artificial Intelligence related projects in the company where I actually work.

That's why I believe I am a good candidate for the position of Senior Data Scientist, and a strong asset for the Kantar Group.

Sincerely,

Dr. Vincenzo Lavorini