

Daniele Gadler

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WORK EXPERIENCE

ONE LOGIC GmbH. Frankfurt, DE — Data Scientist

March 2021 - Present

Design, implementation and productionalization of data science solutions in Spark, Python, R, SQL

- Data-driven supply chain optimization for a large German pharmaceutical company.
- DataOps, Data Engineering, data modelling
- Model-based time series forecasting
- Customer communication and management, sprints' planning

Südtiroler Informatik AG. Bozen, IT — Data Scientist

October 2019 - January 2021

Business analysis, prototyping, project lead of Machine Learning projects carried out for the Autonomous Province of Bozen in SAS, SAS Viya, Microsoft Azure, Python for:

- Severe COVID illness prediction based on patients' symptoms.
- Predictive road traffic trends from IoT and weather data
- Predictive maintenance of road infrastructure from Google Maps images
- Farmer's crop funding automation from satellite images.

National Research Council. Pisa, IT — Msc. Research Fellow

March 2019 - October 2019

State-of-the-art review, implementation in PyTorch, experimentation of "Federated Quantization", introducing quantization at the client and server level in federated learning, reducing data exchanged by 8.70x.

Free University of Bolzano. Bozen, IT — Research Data Scientist

February 2018 - March 2018; July 2018 - September 2018

Development in R of a distributed and parallel tool for analyzing logs

WEB PAGES

Personal Website:

<https://danyele.github.io>

Github :

<https://github.com/DanyEle>

LinkedIN:

<https://linkedin.com/in/daniele-gadler>

Xing:

https://xing.com/profile/Daniele_Gadler

SKILLS

Data Science skills:

- Excellent: Python, NumPy, Pandas, Scikit-Learn, ONE DATA.
- Advanced: PostgreSQL, Spark, Scikit-Learn, SparkSQL, Flask, SAS, SAS Viya, R.
- Good: PyTorch, Keras

Programming skills:

- Good: Java, C++, C, C#, web programming (Javascript, HTML, CSS), REST APIs

Machine learning theory:

Acquired from scientific articles, books, courses at the university.

Soft Skills:

- Teamwork, project management, stakeholder management, leadership and mentoring.

of the ALMA observatory in Chile via Hidden Markov Models.

<https://github.com/DanyEle/hmm>

TU Kaiserslautern. Kaiserslautern, DE — Research Fellow

July 2017 - September 2017

Theoretical and experimental comparison of state-of-the-art Wi-Fi device identification techniques with physical-layer features.

EDUCATION

Scuola Superiore Sant'Anna, University of Pisa. Pisa, IT. Msc. in Computer Science and Networking

September 2017 - October 2019

Inter-university two-year Master's programme with a focus on Data Science and Networking

Graduation grade: **110 cum laude / 110.**

Exams' GPA: 29.74 / 30.

TU Kaiserslautern. Kaiserslautern, DE. Bsc in Computer Science – Erasmus+ programme.

October 2016 - July 2017

One-year exchange Erasmus+ student attending courses in German.

Exams' GPA: 1.63 / 4.00.

Free University of Bolzano. Bozen, IT. Bsc in Computer Science and Engineering

October 2014 - July 2017

Three-year trilingual (German, English, Italian) Bachelor in Computer Science and Engineering.

Graduation grade: 106 / 110.

PUBLICATIONS

“Neural Network Quantization in Federated Learning at the Edge”

October 2021

“Information Sciences” Journal. Volume 575, Pages 417–436.

“Mining Logs to Model the Use of a System”

November 2017

ACM/IEEE ESEM '17. Toronto, Canada.

“Bringing the Cloud to Rural and Remote Areas via Cloudlets”

November 2016

ACM DEV '16. Nairobi, Kenya.

Cloud computing:

- Microsoft Azure

AWARDS

2020, Best Graduate Award – Msc.

in Computer Science and

Networking (€1500):

Top 1. graduate based on the graduation and exam grades and least time to graduate.

2018, Best Student Award – Msc.

in Computer Science and

Networking (€2000):

Top 1. student based on exam grades and number of exams passed.

2016–2017, Erasmus+ scholarship

for one year at the Technische

Universität Kaiserslautern

2015, CRCC Asia Italy scholarship

award for an internship in China.

LANGUAGES

Italian – Native.

English – C2, Fluent.

German – C1+, Advanced.

Chinese – A2/ B1, Basic.

SIDE PROJECTS

Lead the Future – Mentor

Mentor as part of the “Lead the Future” program, a non-profit Italian organization that helps students in the STEM sector unlock their potential.

<https://leadthefuture.tech/>

OpenMined – PySyft

Contributor to an Open Source PyTorch framework for privacy-preserving distributed neural network training.

<https://github.com/OpenMined/PySyft>