

Daniele Gadler

Senior Data Scientist

Citizenship: Italian

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WORK EXPERIENCE

• STADA Arzneimittel AG. Senior Data Scientist. Bad Vilbel, Germany

February 2024 - Now

- Leading the development of productive GenAI, Machine Learning and Data Science solutions using **Microsoft Azure**, Google Cloud Platform, **Databricks** and **Python**, delivering value for the business
- Leading the implementation and adoption of STADA GPT, a **GenAI chatbot** within STADA
- Training colleagues on **Generative AI**, driving the adoption of Generative AI tools for daily work.

• One Data GmbH. Frankfurt am Main, Germany

March 2021 - December 2023

- **Senior Data Scientist.** April 2023 - December 2023
 - Led and developed productive data science solutions in **Spark**, **SQL**, **Python** and the ONE DATA platform
 - Developed a tool for **supply chain optimization** for a large **German pharmaceutical company** used in production saving approx. **€500k per year** and avoiding material stock outs [URL](#)
 - Led and coordinated a team of up to **4 colleagues** for the development of data science solutions
 - Prototyped a tool for configuration optimization for a luxury German car manufacturer
- **Data Scientist.** March 2021 - March 2023
 - Carried out DataOps, **data engineering**, data modeling, data visualization, setup data mesh architectures
 - Created time series and simulation analyses for scenario-based production of medicines
 - Led **customer communication** and management and features' requirements analysis

• Südtiroler Informatik AG. Data Scientist. Bozen, Italy

October 2019 - January 2021

- Led and developed data science and **machine learning** projects in **SAS**, **SAS Viya**, **Microsoft Azure** and **Python**
- Created **time series analysis** for monitoring and preventing the spread of **Covid-19** in South Tyrol, Italy
- Led the development of a project for farmers' crop funding automation from **satellite images**
- Prototyped a tool to predict road traffic trends in South Tyrol from **IoT** and weather data. [Repo's URL](#)

• National Research Council of Italy. Master's Research Fellow. Pisa, Italy.

March 2019 - October 2019

- Proposed, implemented and validated experimentally "**Federated Quantization**" in federated learning of **Recurrent Neural Networks** using **PyTorch** and **PySyft**, reducing network data transmitted by 8.70x, while still maintaining a high model accuracy. [PySyft's URL](#)

EDUCATION

- **Scuola Superiore Sant'Anna and University of Pisa.** *Msc. in Computer Science and Networking* - Specialization in Data Science and Distributed Computing. Pisa, Italy.

September 2017 - October 2019

Two-year Inter-university Master's programme at the **honors school** "Scuola Superiore Sant'Anna".

MSc thesis title: "The Impact of Recurrent Neural Network Quantization on Federated Learning", published in the "Information Sciences" Journal.

Awards: Top 1. Master's student in 2018 and top 1. 2019 graduate by grades, least graduation time and exams.

Graduation grade: 110 cum laude / 110. **Exams' GPA:** 29.74 / 30.

- **Technische Universität Kaiserslautern.** *Bsc. in Computer Science - Erasmus+ Exchange Year.*

Kaiserslautern, Germany

October 2016 - July 2017

One-year exchange **Erasmus+** student attending Bsc. and Msc. university courses in German.

Exams' GPA: 1.63 / 4.00.

- **Free University of Bozen - Bolzano.** *Bsc. in Computer Science and Engineering.* Bozen, Italy.

October 2014 - July 2017

Three-year trilingual study programme (attended lectures in German, English, Italian). Attended an internship in China, studied for **1 year abroad** in Germany and graduated within **2 years and 9 months**.

BSc thesis title: "Mining Data to Model System Usage with Hidden Markov Models", published at the ESEM Conference.

Graduation grade: 106 / 110.

SKILLS

- **Languages:** Italian (Native); English (C2, Fluent); German (C1+, Business fluent); Chinese (B1, Basic).
 - **Data Science skills:** Agents, RAG, Spark **Python**, PyTorch, Pandas, **SQL**, SAS, SAS Viya, R, Hadoop, **Databricks**.
 - **Programming skills:** Java, Web programming (Javascript, HTML, CSS), REST APIs, C++, C, C#, Linux/Unix, Bash.
 - **Soft and Delivery Skills:** Teamwork, agile project management, stakeholder and customer management, leadership and mentoring, deadline and priority management.
 - **Cloud computing:** Microsoft Azure (2x Certified), Google Cloud Platform (Certified).
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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.
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AWARDS

- **2020, IDC Award - Sustainable Urban Planning and Administration :** Awarded for the use of machine learning and satellite images for transforming the process of assigning farming grants in South Tyrol, Italy.
- **2020, Best Graduate Award - Msc. in Computer Science and Networking (€1500).** Scuola Superiore Sant'Anna: 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).** Scuola Superiore Sant'Anna: Top 1. first-year student based on exam grades and number of exams passed.
- **2016, CRCC Asia Italy scholarship award** for an internship at the Mullen Lowe Profero company in China.