

KEVIN INNEREBNER BSC.



Data Science | Machine Learning | Compilers | Software Technology

CONTACT

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🏠 <https://kev-inn.github.io>

🌀 @kev-inn

in Kevin Innerebner

EDUCATION

🎓 MSc. Computer Science

📅 09/2021 - ongoing

📍 Graz University of Technology, Austria

🎓 Erasmus+ Student Exchange

📅 01/2022 - 05/2022

📍 University of Jyväskylä, Finland

🎓 BSc. Computer Science

📅 09/2018 - 10/2021

📍 Graz University of Technology, Austria

🎓 Higher School/HTL

📅 09/2013 - 07/2018

📍 HTBLA Braunau, Braunau

Electronics - Mobile Computing

SKILLS

Programming Languages

Python, C#, C, C++, Java

Julia, R, Rust



Software & Tools

PyTorch

Tensorflow



Languages

German

English



HONOURS AND AWARDS

🏆 TU Graz 100 - Siemens Scholarship

🏆 Dean's List 2022, 2020 & 2019

🏆 CEOI 2018 - Team Austria

⚙️ WORK HISTORY

📁 Student Project Assistant

📅 04/2023 - 11/2023

📍 Graz University of Technology

Developing FemQuest at the Game Lab Graz, a game that teaches teenagers to code.

📁 Research Assistant

📅 07/2019 - 12/2021

06/2022 - 07/2022

📍 Graz University of Technology

Work on various research projects. See [Projects](#).

📁 Tutor

📅 10/2019 - 07/2020

📍 Graz University of Technology

Teaching students **C** and **C++**.

📄 PROJECTS

</> DAPHNE

📅 11/2020 - 07/2022

🌐 <https://daphne-eu.eu>

📍 Graz University of Technology, Graz 📦 w/ MLIR, LLVM, C++, SIMD

- MLIR-based compiler for **Data Analysis** and **Machine Learning** pipelines.
- EU-funded project with **13** members.
- Prototype and experimental feasibility study as **BSc. thesis**.
- <https://github.com/daphne-eu/daphne>
- See [Publications](#).

</> ExDRa

📅 07/2019 - 07/2022

🌐 <https://www.exdra.de/>

📍 Graz University of Technology, Graz 📦 w/ Spark, Hadoop, Java, Python

- Exploratory data science on **federated raw data**
- Shared project with **Siemens, TU Graz, DFKI** and **TU Berlin**
- See [Publications](#).

</> SystemDS

📅 07/2019 - 07/2022

🌐 <https://systemds.apache.org/>

📍 Graz University of Technology, Graz 📦 w/ Spark, Hadoop, Java, Python

- **ML system** for the end-to-end data science Lifecycle.
- Worked on various components (Federation, Tensors, Python-API, ...).
- <https://github.com/apache/systemds>
- See [Publications](#).

PUBLICATIONS

mCPT at SemEval-2023 Task 3: Multilingual Label-Aware Contrastive Pre-Training of Transformers for Few-and Zero-shot Framing Detection.

 M. Reiter-Haas, A. Ertl, **K. Innerebner**¹, E. Lex

 2023  SemEval'23

 [arXiv](#)


Federated Data Preparation, Learning, and Debugging in Apache SystemDS

 S. Baunsgaard, M. Boehm, **K. Innerebner**, M. Kehayov, F. Lackner, O. Ovcharenko, A. Phani, T. Rieger, D. Weissteiner, S. B. Wrede

 2022  CIKM 2022

 [ACM DL](#)


DAPHNE: An Open and Extensible System Infrastructure for Integrated Data Analysis Pipelines

 P. Damme, M. Birkenbach, C. Bitsakos, M. Boehm, P. Bonnet, F. Ciorba, M. Dokter, P. Dowgiallo, A. Eleliemy, C. Faerber, G. Goumas, D. Habich, N. Hedam, M. Hofer, W. Huang, **K. Innerebner**, V. Karakostas, R. Kern, T. Kosar, A. Krause, D. Krems, A. Laber, W. Lehner, E. Mier, M. Paradies, B. Peischl, G. Poerwawinata, S. Psomadakis, T. Rabl, P. Ratuszniak, P. Silva, N. Skuppin, A. Starzacher, B. Steinwender, I. Tolovski, P. Tözün, W. Ulatowski, Y. Wang, I. Wrosz, A. Zamuda, C. Zhang, X. X. Zhu

 2022  CIDR 2022

 [PDF](#)


ExDRa: Exploratory Data Science on Federated Raw Data

 S. Baunsgaard, M. Boehm, A. Chaudhary, B. Derakhshan, S. Geißelsöder, P. Marian Grulich, M. Hildebrand, **K. Innerebner**, V. Markl, C. Neubauer, S. Osterburg, O. Ovcharenko, S. Redyuk, T. Rieger, A. R. Mahdiraji, S. B. Wrede, S. Zeuch

 2021  SIGMOD 2021

 [ACM DL](#)

SystemDS: A Declarative Machine Learning System for the End-to-End Data Science Lifecycle

 M. Boehm, I. Antonov, S. Baunsgaard, M. Dokter, R. Ginthör, **K. Innerebner**, F. Klezin, S. Lindstaedt, A. Phani, B. Rath, B. Reinwald, S. Siddiqi, S. B. Wrede

 2020  CIDR 2020

 [arXiv](#)

¹Some version state “Innerhofer” by mistake