

# German Data Science Days 2025

Deep Learning, AI, and Machine Learning are some of the prominent buzzwords defining our digital era. At the heart of the digital transformation lies data science, the science of extracting information and knowledge from data. Data science plays a major role in science, industry, and business, and close collaboration between all stakeholders involved is necessary.

The German Data Science Days (GDSD) provide the ideal platform for fostering such collaboration: We bring together data scientists from various disciplines and create a vibrant forum for practitioners and experts with the aim to identify and discuss cutting-edge methods, explore new fields of application, and enhance the professional profile of data scientists. The German Data Science Days are organised by the **elite master program Data Science at LMU Munich** in cooperation with the **German Data Science Society (GDS) e.V.**



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PREDICTIVE ANALYSIS ARTIFICIAL INTELLIGENCE BIG DATA  
MACHINE LEARNING DATA SECURITY DEEP LEARNING  
DATA MINING DATA ETHICS STATISTICS PREDICTIVE  
ANALYSIS ARTIFICIAL INTELLIGENCE BIG DATA MACHINE  
LEARNING DATA SECURITY DEEP LEARNING DATA  
MINING DATA ETHICS STATISTICS PREDICTIVE ANALYSIS

# GERMAN DATA SCIENCE DAYS

## 2025



[www.datasciencedays.de](http://www.datasciencedays.de)

## DataScience@LMU

Fakultät für Mathematik, Informatik und Statistik  
Ludwig-Maximilians-Universität München  
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[www.datascience-munich.de](http://www.datascience-munich.de)

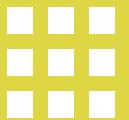


LUDWIG-  
MAXIMILIANS-  
UNIVERSITÄT  
MÜNCHEN

FAKULTÄT FÜR MATHEMATIK,  
INFORMATIK UND STATISTIK

# GERMAN DATA SCIENCE DAYS

## 2025



27|02 - 28|02|2025

LMU München.

Main building. Große Aula.

Geschwister-Scholl-Platz 1 | 80539 München



# PROGRAMME GERMAN DATA SCIENCE DAYS

27|02 - 28|02|2025

GERMAN  
**DATA  
SCIENCE  
DAYS**  
2025



## 27|02|2025

09:00 - 10:30 Registration

10:30 - 10:45 Welcome

### 10:45 - 11:45 **Session 1** Data Science in Transport and Mobility

- **Dr. Dominik Eberlein / Dr. Christopher Alder, Sixt:** "Data Science Approaches for Revenue Management in Car Rental"
- **Dr. Andre Luckow, BMW:** "Emerging AI Technologies and Applications in the Automotive Industry"

11:45 - 12:15 Coffee break

### 12:15 - 13:15 **Session 2** Data Science and Sustainability

- **Viktor Walter, Hochschule Karlsruhe:** "Federated Learning-based Forecasting of Renewable Energy Production"
- **Dr. Magdalena Mittermeier, LMU:** "Big Data and Deep Learning for Climate Sciences - Climate Change and Extreme Events in Europe"

13:15 - 14:30 Lunch break

### 14:30 - 16:00 **Session 3** Data Science in the Public Sector

- **Felicitas Ludwig, Google:** "Next Gen Innovation with AI: Shaping the Future of Organisations"
- **Dr. Sarah Rachut, TUM:** "Meine Daten, deine Daten: alles nur bürgerliche Kategorien? – Datenverfügbarkeit als Voraussetzung für eine gemeinwohlorientierte Digitalisierung"
- **Dr. Michael Jankowski, Bundeskanzleramt:** "Data Science und KI als Innovationstreiber in den Bundesministerien"

16:00 - 16:30 Coffee break

### 16:30 - 17:30 **Session 4** Data Science in Retail

- **Florian Scheibner, NKD:** "Data-Driven Retail: Creating Value through Data Science"
- **Benjamin Jansen, Stöckli / Andreas Gillhuber, Alexander Thamm:** "Next Generation eCommerce – GenAI Boosts Ski Sales with Dynamic Website"

## 28|02|2025

### 09:00 - 10:00 **Session 5** Data Science in Banking and Insurance

- **Dr. Andreas Fuest, Ultramarin:** "AI-based Investment Management: Challenges, Experiences, and Added Value for Investors"
- **Dr. Sebastian Kaiser, Munich Re:** "(Gen-)AI in Reinsurance – How to Treat Cases not Really Represented in the Training Data"

10:00 - 10:30 Coffee break

### 10:30 - 11:30 **Session 6** Data Science in Industry

- **Dr. Michael Schropp, Siemens Industries:** "How we Bring Generative AI into Factories: Siemens Industrial Copilots"
- **Maximilian Burkardt / Timo Pfister, IBM:** "Trust & Transparenz in Data Science und GenAI Projekten"

11:30 - 12:00 Coffee break

### 12:00 - 13:00 **Session 7** Data Science for Conflict, Peace, and Security Studies

- **Daniel Racek / Prof. Dr. Paul Thurner / Prof. Dr. Göran Kauermann, LMU:** "Computational Conflict Research"
- **Dr. Stefan Taing, Munich Innovation Labs:** "Augmenting OSINT with Large Language Models: Enhancing Situational Awareness in Conflict Analysis"

13:00 - 14:15 Lunch break

### 14:15 - 15:15 **Session 8** Data Science in Pharmacy and Medicine

- **Prof. Dr. Anne Schwerk, IU / BIH:** "Data-driven Medicine"
- **Theresa Schmitt, Bayer AG:** "Machine Learning in Early Drug Discovery: Cell Painting at Scale"

15:15 - 15:45 Lunch break

### 15:45 - 17:15 **Session 9** Agentic AI as the Next Evolutionary Stage of Generative AI

- **Akarsha Sehwal, AWS / amazon:** "Exploring Agentic Patterns in Your Use Case"
- **Dr. Tilo Eißler / Vadim Vlasov, Steadforce:** "Industrial AI Agents: Leveraging Small Language Models for Scalable Intelligence"
- **Dr. Johannes Nagele / Kai Sahling, Alexander Thamm:** "Multi-Agenten-Systeme & beyond"

17:15 - 17:30 Wrapup