

Florian Wilhelm

Head of Data Science

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Special Interests

- √* **Mathematical Modelling**
- 🏢 **Data Science to Production & Data-Driven Services**
- 🔧 **Causal Inference & Uncertainty Quantification**
- 👤 **Recommender Systems & Personalisation**
- 🐍 **Python Data Stack & Creator of PyScaffold**

Work Experience

02/2020 – today

Head of Data Science, *inovex GmbH*, Cologne, Germany.

Team lead and driver of the field of Data Science within inovex. Tasks:

- managing a heterogeneous team of data/ML engineers and data scientists,
- sparring partner and consultant in data science projects,
- technical account manager and presales,
- strategic expansion and further development of our data science business.

04/2016 – 01/2020

Principal Data Scientist, *inovex GmbH*, Cologne, Germany.

Consultant for Data Science, mathematical modelling and Big Data maximizing the benefits of the digital transformation for our customers. Tasks:

- recommendation engine and user preference service for the e-commerce company mobile.de,
- fraud and account takeover detection for a large e-commerce company,
- learning to rank to improve search results of customers for a large e-commerce company,
- research projects in OCR with deep learning, NLP interface for SQL, reinforcement learning and uncertainty quantification,
- project lead, support of presales activities and supervisor for bachelor and master students.

11/2015 – 03/2016

Senior Professional: Data Scientist, *CSC Consulting GmbH*, Cologne, Germany.

Consultant for advanced Data Science, Big Data and Analytics solutions:

- predictive maintenance for a component manufacturer of commercial vehicles,
- training and coaching of new employees in the field of Data Science,
- support of PreSales activities, i.e. presentations, customer events, preparation of offers and cost estimation.

- 12/2012 – 09/2015 **Senior Data Scientist**, *Blue Yonder*, Karlsruhe, Germany.
 Predictive analytics and statistical modelling in Big Data projects:
- demand forecasts & replenishment for a consumer packaged goods company as project leader,
 - forecasts of the production costs for a large manufacturing company as project leader,
 - algorithms for trade promotion management for the consumer goods industry,
 - price & trend forecasts of raw materials for a large chemical producer,
 - demand forecasts for a global discount supermarket chain,
 - participation in the development of the Blue Yonder Forward Demand product,
 - tutor in the Data Science Academy,
 - contributions to open-source projects like Scikit-Learn, SciPy, PyScaffold and PyDSE.
- 03/2009 – 11/2012 **Research Assistant & Postdoc**, *Karlsruhe Institute of Technology (KIT)*.
 Work on a BMBF-funded project during PhD and Head of the Research Lab for Application and Innovation at the Institute of Applied and Numerical Mathematics at KIT as Postdoc since 02/2012.

Education

- 03/2009 – 01/2012 **Graduation**, *KIT*, Karlsruhe, Germany, *Grade: 1.0 "magna cum laude"*.
 Graduation at the Karlsruhe Institute of Technology (KIT) in the field of numerical simulation and optimization of climate models on high-performance computer clusters.
- 10/2002 – 12/2008 **Dipl. Mathematics**, *University of Karlsruhe*, Germany, *Grade: 1.3*.
 Studies with emphasis on numerical mathematics and computer science as subsidiary subject.
- 08/2006 – 07/2007 **Year abroad**, *University of Linköping*, Sweden.
 One year abroad in Sweden with the Erasmus program.
- 09/2001 – 05/2002 **Basic Military Service**, *1. PzArtLBtl 345*, Kusel, Germany.
- 08/1992 – 06/2001 **Abitur**, *Leibniz Gymnasium*, Neustadt an der Weinstraße, Germany, *Grade 1.8*.

Language Skills

Germany **mother tongue**
 English **business fluent**

IT Skills

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|-------------------|--------------------------------------|-------|----------------------------|-------|--------------------|-------|---------------|-------|
| Programming | SQL | ●●●●● | Python | ●●●●● | NumPy/SciPy | ●●●●● | Pandas/Polars | ●●●●● |
| | Scikit-learn | ●●●●● | Matplotlib/Seaborn | ●●●●● | Snowflake/Snowpark | ●●●●● | | |
| | Spark | ●●●●● | Google Cloud Platform | ●●●●● | AWS | ●●●●● | | |
| Operating Systems | Linux (LPI Level 1 & NCLA certified) | ●●●●● | MacOS | ●●●●● | Windows | ●●●●● | | |
| Office Software | Word | ●●●●● | Excel | ●●●●● | Powerpoint | ●●●●● | | |
| Miscellaneous | Git | ●●●●● | Agile Software Development | ●●●●● | LaTeX | ●●●●● | | |

Köln, 2024/01/16