

Edouard Fouché, PhD, MBA



Nationality: French, German
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CONTACT

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EXPERTISE

Data Science
Machine Learning
Artificial Intelligence
Technology watch
Public speaking, Teaching
Algorithms, Programming
Visualization, Databases

PROGRAMMING

Python (~12 years)
SQL (~10 years)
Scala (~5 years)
R (~3 years)

SOFTWARE

Git, Linux, MacOS, MS Office,
VS-Code with Copilots

SOFT SKILLS

Research, Leadership
Stakeholder Management
Agile Software Development
Cultural Awareness
Dedication, Communication

LANGUAGES

French (Native)
English, German (Fluent)

INTERESTS

Photography (> 15 years)
Hiking, Travels, Cooking,
Roller Derby, Marksmanship

Award-Winning Machine Learning / AI Expert

EXPERIENCE

2023-now Data Scientist for Product Innovation, Siemens AG.

- Tech lead for large-scale API-based forecasting software product.
 - Scaling internal and external stakeholder adoption (> 100x calls within 6 months).
 - Established MLOps and benchmarking boosting accuracy by up to 300%.
 - Keynote speaker for C-level and consulting on data strategy.
- Tech stack: Jira, Confluence, GitLab CI/CD, Docker, Python, Sklearn, Pytorch, ML-Flow, Kubernetes, Azure, AWS S3, AWS EC2, PostgreSQL, FastAPI.

2020-2023 Group Leader & Lecturer, Karlsruhe Institute of Technology (KIT).

- Mentoring of 4+ doctoral students, and many master students.
- Principal lecturer for Data Science. Best elective two years in a row.
- 6-month research stay in the group of Prof. Junya Honda, Kyoto University.

2016-2020 Researcher & Ph.D. Candidate in Data Science, KIT.

- Advised 10+ student theses (Master/Bachelor level).
- Collaborated with 2 research labs (international) and 5 industry partners.
- 3-month research stay at the Data Mining Group, Prof. Jiawei Han, UIUC.

2015-2016 Software Developer, IBM R&D GmbH, Böblingen.

- Created `ibmdbpy`, an open-source interface between Python and DB2.
- Writing my Master's thesis in collaboration between KIT and IBM.
- Mentoring interns, Python coaching.

EDUCATION

2020-2021 MBA, Quantic School of Business and Technology. (fka "Smartly")

- Online, 7% admission rate. Graduated with honors (top 10% of cohort).
- Accounting, Economics, Data & Decisions, Leading Organizations, Marketing, Finance, Supply Chain & Operations, Strategy, Entrepreneurship.

2016-2020 Ph.D. (Dr.-Ing.) in Data Science, KIT.

- Thesis: Estimating Dependency, Monitoring and Knowledge Discovery in High-Dimensional Data Streams. (Advisor: Prof. Klemens Böhm)
- Summa Cum Laude (top 10%). Helmholtz Doctoral Prize. German GPA: 1.0

2015-2016 M.Sc. Computer Science, KIT.

- Thesis: Fast In-Database Feature Selection. (Advisor: Prof. Emmanuel Müller)
- German GPA: 1.4 (very good)

2010-2015 Diplôme d'Ingénieur (Dipl.-Ing.), ESIEE Paris, France.

- Major: Computer Science. Erasmus study at KIT, Germany.
- Top of the class. Final internship at IBM R&D (6 months).

AWARDS

2024 Best Elective Lectures: Data Science 1 & Data Science 2.

KIT Faculty of Computer Science – two times in a row.

2023 Leadership Academy Fellow (German Scholars Organization).

10K€ grant for leadership training, networking, mentoring.

2021 Elite Program for Postdocs (Baden-Württemberg Stiftung).

Research funding of 150K€ and trainings for early career researchers.

2020 Doctoral Prize (Helmholtz Association). 5K€ + 12K€ travel scholarship

The Helmholtz Association is the largest german scientific organisation.

2019 Best Paper Award (SSDBM: Statistical and Scientific Database Management).

Paper: Monte Carlo Dependency Estimation.

2017 Software Campus Fellow (Federal Ministry of Education and Research).

100K€ research grant, training, mentoring.

2015 Parcours d'Excellence (ESIEE Paris). Top 1% of the cohort.