Edouard Fouché, PhD, MBA

Nationality: French, German
Blog: edouardfouche.com
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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, Databases,
LaTeX, Adobe, MS Office

SOFT SKILLS

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

LANGUAGES

French (Native)
English, German (Fluent)

INTERESTS

Photography (> 12 years)
Hiking, Travels, Cooking,
Roller Derby, Fitness

Award-Winning Machine Learning / AI Expert

EXPERIENCE

2023-now **Data Scientist for Product Innovation, Siemens AG**.
○ Technical leadership for large-scale AI-powered forecasting software.
○ Building high-performance robust data pipelines for AI models.
○ MLOps and benchmarking boosting predictions quality by up to 300%.
○ Managing stakeholders at corporate 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, PostgresSQL, 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 of fellow interns and giving 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.