

Rolf Britten

*Qualified Actuary with a proven record of leading teams to deliver high-quality projects, models and analyses.
Experienced in personal lines insurance; passionate about use of Data Science to create competitive edges.*

Education

2016 – 2019 | **Institute and Faculty of Actuaries FIA**
2010 – 2013 | **University of Exeter** BSc [Hons] Mathematics - 2:1

Professional Experience

Allianz Personal (LV= GI)

Head of Data Science Operations *October 2022 – Present*

- Responsible for delivery of business value through use cases across department of 50+ data professionals.
- Overseeing the day-to-day administrative and operational functions of department
- Brought in total overhaul of department's ways of working. Introduction of software engineering organisational principles with a shift to focus on building Machine Learning as products. Created autonomous team units which align to either streams of current business priorities or enable the needs of the department
- 12 direct and indirect reports

Data Science Manager *February 2022 – October 2022*

- Project management of use cases accross various insurance domains including Underwriting, Customer Operations and Marketing
- Scoped use cases aligned to strategies of above departments
- Led Data Science effort to move home risk rating across multiple channels onto Machine Learning models. The modelling capability delivered demonstrated material improvement in predictive power across total 80 models for the project.

Direct Line Group:

Pricing Data Science Lead - Pricing & Underwriting *June 2021 – January 2022*

- Technical Lead on motor risk models for DLG's Pricing Transformation
- Delivered a step-change in predictive performance with estimated impact exceeding target from Pricing Transformation programme through *tactical* delivery of value
- Laid foundation and secured CTO buy-in for *strategic* pricing infrastructure
- Built library for Emblem predictions in R to gather quicker and deeper insight from baseline models

AXA Insurance:

Data Science Manager *March 2020 – May 2021*

- Drove technical excellence, business-focused R&D and adoption of improved tools/techniques across AXA Personal Lines pricing
- Designed process for geographic smoothing in non-linear model pipelines; recommendations implemented as next motor risk model refresh with predictive improvement equivalent to previous full refreshes
- Owner of common code shared through R and Python packages
- Explored, load tested and benchmarked scoring pipeline optimisations of API deployments to meet SLAs at peak IHP volumes

Technical Pricing Manager *March 2019 – Feb 2020*

- Responsible for maintenance and improvement of motor risk pricing for AXA's direct brands

- Led analysis, modelling, reporting and ad hoc investigations whilst providing line management responsibilities across a team of 4 analysts
- Delivered first incremental refresh of machine learning risk models; value generated through innovative new features, collaborating with Data Science
- Complete re-build of AvsE interactive reporting: Included tools to automatically flag and rank problematic n-way segments and dynamic plots with approximations for statistical significance

Senior Technical Pricing Analyst *January 2018 – February 2019*

- Key member of team which delivered new ML model suite. Main overseer of data wrangling, rating system deployment, impact analysis
- Feature engineering from test-level MOT data, followed by analysis and presentation of statistically significant pricing deficiencies
- Developed interactive explainability packs to reassure stakeholders and achieve buy-in of new ML models.
- Chaired regular meeting for cross-team analysts to present work and share knowledge

Technical Pricing Analyst *June 2015 – December 2017*

- Refreshed Motor Risk Pricing models in Emblem and wrote the code for SAS Data Prep, post-deploy analysis and monitoring
- Developed in-house alternative to market-leading geographic analysis tool in R which was shared across AXA globally: Incorporated several bespoke algorithms to compete/ensemble. Tool gives consistent improvement in performance on unseen data on problems across AXA Group

Rating Engine Analyst *April 2014 – June 2015*

- Developed rating engine at the heart of quotation and policy admin platform. Supported various business units with their changes.
- First role in insurance prepared me with understanding and insight into practicalities of maintaining systems in production.

Skills

Leadership and Communication I try to embed the best elements of **agile** operating models in the way I work and manage the work around me. *Focus on the customer, simplification* of work and *test & learn* are a few of the principles that I find most beneficial in getting the most value from an analytical function.

I enjoy **coaching** colleagues and I manage my relationships with emphasis on mutual trust and empowerment. I am comfortable adapting the style and content of my **presentation and communication** as appropriate; to update stakeholders, drive engagement, secure buy-in, or to generate discussion and ideas.

Innovation Driving improvements to processes and models using novel ideas and methods, in order to deliver a competitive edge to the business is something I truly enjoy. I try to work in a way which **challenges and improves processes** while maintaining focus on objective outcomes.

Throughout my career I have made improvements to many processes across multiple domains. I encourage my colleagues to develop and share knowledge and ideas to improve ways of working and the communication of results to stakeholders.

Technical Knowledge I am motivated by the challenge of designing elegant solutions to business problems.

I possess the skills and knowledge to execute solutions whether they be implementations of MVP or seeking marginal improvements to existing products with modelling and coding excellence. I am adept at orchestrating the necessary work in small teams or large groups of disparate stakeholders.

I stay abreast of latest developments to technical best practice through understanding of the work of the teams around me and self study for ongoing personal development.

Interests

Endurance Cyclist Lead cyclist on corporate charity rides, responsible for safety and morale.

Music, Sustainability, Gym, Film making, DIY, Video Essays, Cooking