

EAA Web Session **Actuarial Data Science – Basic**

23-25 February 2026 | Online

Organised by the EAA – European Actuarial Academy GmbH in cooperation with the Aktuarvereinigung Österreichs (AVÖ).

This is part one of four courses required to obtain the [EAA Certificate in Actuarial Data Science](#). To earn the certificate, participants must complete all four modules, which include both the seminar and the exam. Members of AVÖ and/or DAV will obtain the additional title Certified Actuarial Data Scientist (by AVÖ and/or DAV) by fulfilling the same requirements.

Furthermore, all courses are open to interested actuaries to deepen their knowledge and skills in the field of Actuarial Data Science (without exams).

Introduction

Due to technological progress in connection with Data Science and Digitalization, summarized under the buzzword Big Data, a plethora of opportunities and challenges for the industry is arising.

Technological developments have now also reached the insurance industry and thus have a direct impact on the working world of actuaries.

Under the heading *Actuarial Data Science*, the procedures and methods of data mining are embedded in the actuarial context. These range from mathematics-driven statistical methods for derivation of insights from data to computation-driven methods sometimes summarized as machine learning. As a result of almost unlimited computing capacity through cloud computing and wide availability of training data, tried and tested methods of machine learning, such as artificial neural networks, are experiencing a renaissance in theory and practice.

This seminar is the first part of a four-part series at the German Actuarial Association (DAV), where we cover a wide variety of topics ranging from fundamentals of digitalization in the insurance industry to data management and deep learning. Also, it is based on the learning objectives of the DAV for Actuarial Data Science Basic, which is part of the actuarial training in Germany.

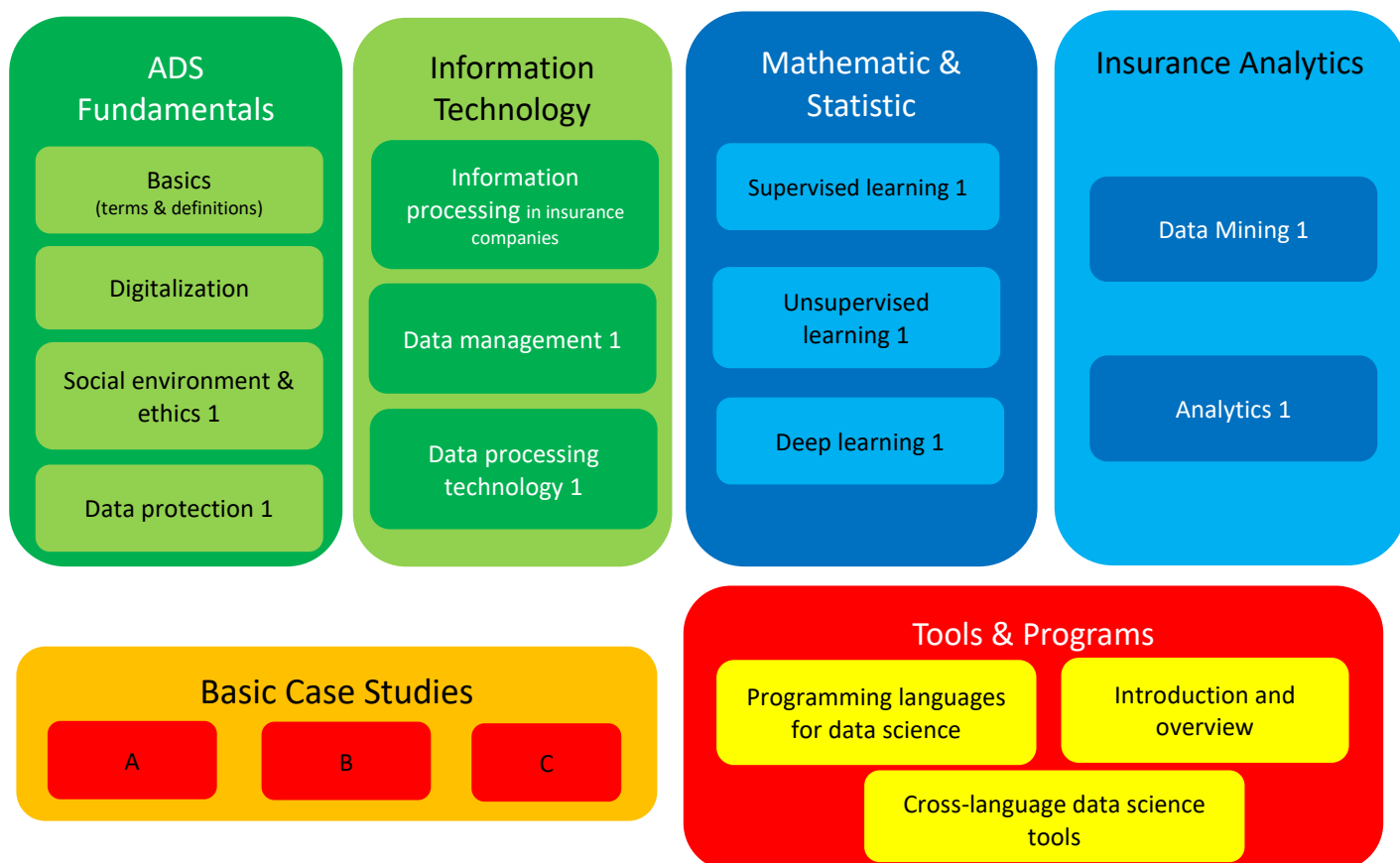
Participants

This web session is suited for actuaries (and actuaries in training), interested persons and for everyone who wants to get to know the topic (more precisely). Previous knowledge in Actuarial Data Science is **not** necessary. But a solid mathematical education is necessary to follow some of the concepts that will be presented. A laptop is not necessary but can be helpful.

Purpose and Nature of part 1: Actuarial Data Science – Basic

We intend to give an introduction to the concepts of Actuarial Data Science and its applications. We start at the very beginning, so no prior knowledge is required.

In this three-day training, we cover a wide range of topics. This includes a basic introduction to the concepts and terms of artificial intelligence, modern data management concepts (with a special look at insurance companies), aspects of data protection and the mathematical and statistical concepts of data mining. On our way, we touch different use cases in the actuarial environment. To this end, we provide a brief insight into the widely used language R and development tools in the data science context (RStudio, Anaconda). The seminar rounds off with principles for the ethical handling of artificial intelligence in the insurance environment.



Language

The language of the seminar will be English. The exams will be, by your preference, in German or English. Please choose the language during the booking process.

Lecturers

Wolfgang Abele

joined Deloitte 2018 as Senior Manager in the actuarial Non-Life team. He has more than 18 years of experience in the consulting and insurance industry, having worked for HDI Versicherung AG, MSG Consulting und Allianz. Before he joined Deloitte Wolfgang was head of the unit Reserving & Reinsurance. Throughout his career, he was involved in a large number of actuarial projects, in pricing, reserving (IFRS, local GAAP, Solvency II), internal modelling and risk management. His focus was on predictive modelling, analytics, and process optimization. He has extensive knowledge in the programming language R and gives seminars on actuarial data science for the Deutsche Aktuar-Akademie (DAA).

Dr Marc Busse

is heading the department for software solutions within the microscopy division of ZEISS. Previously, he has been working for seven years in the reinsurance sector as an actuary with focus on data science related topics. Marc is a certified actuary (DAV) and holds a PhD in theoretical physics.

Dr René Külheim

is a mathematician and actuary (DAV) at PTA GmbH, where he heads the artificial intelligence department. In addition to data science-based project work in the financial sector, he is responsible for cloud-based software products with AI components.

Prof Dr Jonas Offtermatt

is a professor of programming and mathematics at DHBW Stuttgart. He has been working as a programming actuary since 2015 and has been teaching at DAA since 2019. With previous leadership roles in the insurance industry, he possesses extensive experience of IT-management and software development.

Prof Dr Fabian Transchel

holds the endowed chair of e+s Rück for Data Science at Harz University of Applied Sciences, Wernigerode, Germany. He's an avid proponent of Machine Learning and Artificial Intelligence in the insurance sector and has been instrumental in innovating motor insurance through telematics technologies, these days also teaching Actuarial Data Science for DAA and EAA.

Preliminary Programme

Monday, 23 February 2026

09.00 – 09.15	Introduction & welcome (EAA)
09.15 – 10.00	ADS Fundamentals - Basics (Terms & Definitions)
10.00 – 10.45	ADS Fundamentals - Digitalization
10.45 – 11.00	Break
11.00 – 11.45	Tools & Programs – Data Mining 1
11.45 – 12.30	Tools & Programs – Introduction / Cross language data science tools
12.30 – 13.30	Break
13.30 – 14.15	Tools & Programs – Programming languages for data science (R)
14.15 – 15.00	Tools & Programs – Programming languages for data science (R)
15.00 – 15.15	Break
15.15 – 16.15	Tools & Programs – Programming languages for data science (R)
16.15 – 17.00	Mathematic & Statistic – Supervised learning 1

Tuesday, 24 February 2026

09.00 – 09.45	Mathematic & Statistic – Supervised learning 1
09.45 – 10.45	Insurance Analytics – Analytics 1
10.45 – 11:00	Break
11.00 – 11.45	Use Case
11.45 – 12.30	Use Case
12.30 – 13.30	Break
13.30 – 14.15	ADS Fundamentals – Social environment & ethics 1
14.15 – 15.00	ADS Fundamentals – Social environment & ethics 1
15.00 – 15.15	Break
15.15 – 16.15	ADS Fundamentals - Data protection 1
16.15 – 17.00	Information Technology – Information processing in insurance companies

Wednesday, 25 February 2026

09.00 – 09.45	Information Technology – Data management 1
09.45 – 10.45	Information Technology – Data management 1 / Data processing tech. 1
10.45 – 11:00	Break
11.00 – 11.45	Information Technology - Data processing technology 1
11.45 – 12.30	Information Technology – Unsupervised Learning
12.30 – 13.30	Break
13.30 – 14.15	Mathematic & Statistic – Unsupervised Learning
14.15 – 15.00	Mathematic & Statistic – Deep Learning 1
15.00 – 15.15	Break
15.15 – 16.15	Mathematic & Statistic - Deep learning 1
16.15 – 16.45	Use Case 3
16.45 – 17.00	Concluding remarks, closing of seminar (EAA)

Fees & Registration Fees & Registration

Early Bird Registration Fee (until 12 January 2026):

- For private customers in the EU: €1,170.00 + VAT of the billing country (example Germany: €1,392.30 incl. 19% VAT)
- For private customers outside the EU: €1,392.30 (incl. 19% VAT)
- For businesses within the EU (excl. Germany, with valid VAT ID): €1,170.00 (net, reverse charge applies)
- For businesses in Germany: €1,392.30 (incl. 19% VAT)

Regular Registration Fee (from 13 January 2026):

- For private customers in the EU: €1,521.00 + VAT of the billing country (example Germany: €1,809.99 incl. 19% VAT)
- For private customers outside the EU: €1,809.99 (incl. 19% VAT)
- For businesses within the EU (excl. Germany, with valid VAT ID): €1,521.00 (net, reverse charge applies)
- For businesses in Germany: €1,809.99 (incl. 19% VAT)

Important VAT Information:

- For private customers with a billing address in an EU country: VAT will be charged at the applicable rate in the country of the billing address. The final amount, including VAT, will be calculated upon invoicing.
- For customers with a non-EU (third country) billing address: Only a non-company billing address is accepted for VAT compliance reasons. 19% VAT applies to all non-EU private customers.
- For businesses within the EU (excluding Germany), Iceland, Liechtenstein, Norway, Switzerland, and the UK with a valid VAT ID: The reverse charge mechanism applies (net price; VAT will not be charged). Please ensure your valid VAT ID is entered correctly during registration.
- For all customers with a billing address in Germany: 19% VAT applies.

Please submit your registration using this online [booking form](#). Closer to the event, you will receive further login details to join the web session.

Your registration is binding. Cancellation is only possible up to 4 weeks before the first day of the event. If you cancel later, the full participation fee is due. You may appoint someone to take your place but must notify us in advance. EAA has the right to cancel the event if the minimum number of participants is not reached.

We will send you an invoice via email. Please allow a few days for handling. Please always give your invoice number when you effect payment. All bank charges are to be borne by the participant.

Registration is open until two working days before the web session. If registration has already been closed for this web session, please call us or send an email to contact@actuarial-academy.com in order to find out whether a late registration is still possible.

Technical Requirements

Please check with your IT department if your firewall and computer settings support web session participation (the programme Zoom will be used for this online training). Please also make sure to join the web session with a stable internet connection.

CPD

For this web session, the following CPD credits are available under the CPD scheme of the relevant national actuarial association:

Austria:	19.5 points
Belgium:	19 points
Bulgaria:	15 points
Croatia:	individual accreditation
Czech Republic:	19.5 hours
Denmark:	21 credits
Estonia:	19.5 hours
Finland:	11.75 points
France:	117 points
Germany:	21 hours
Greece:	26 points
Hungary:	20 hours
Iceland:	19.5 credits
Ireland:	19.5 hours
Italy:	approx. 4 credits (GdLA individual accreditation)
Latvia:	20 hours
Lithuania:	19.5 hours
Netherlands:	approx. 19.5 PE-points (individual accreditation)
Norway:	20 points
Poland:	19.5 hours
Portugal:	19.5 hours
Serbia:	5 hours
Slovakia:	8 CPD points
Slovenia:	50 points
Spain (CAC):	20 hours
Spain (IAE):	19 hours
Switzerland:	15 points
USA:	SOA: (Section B): up to 23.10 hours

No responsibility is taken for the accuracy of this information.