

**WB Professional Certificate Program**

## Data Science

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The Professional Certificate Program „Data Science“ is an extra-occupational training at LMU. Its purpose is to communicate adequate knowledge of the theory and methods of Data Science. With this background we would like to meet the potential in the practical work experience. The program orients itself along the following guidelines:

- Introduction to the theoretical and practical concepts in the field of Data Science
- Transfer of solid expertise in a wide scope of areas
- Training of analytical and strategic skills

The Professional Certificate Program in generally intended for anyone working in any area of the working

or educational life. In order to participate, either a university degree with focus in mathematics, statistics, computer science or related disciplines and at least one year of work experience is required or any kind of university degree qualifying and at least three years of work experience in an area relevant to the certified data science training program.

With an estimated workload of 200 hours (including time for preparation, follow-up work and preparation for the exam) the Certificate Program is developed as a one semester course. The Professional Certificate Program is spread over nine days of teaching excluding the day of the exam.

Day	Topic	Dates winter term 2018/19, 9.00 am to 5.30 pm
1	First steps in Data Analysis	09.11.18
2	Statistical Foundations	16.11.18
3	Causality and Causation & Visualization	23.11.18
4	Data Management	30.11.18
5	Predictive Modelling 1	07.12.18
6	Predictive Modelling 2 & Deep Learning	14.12.18
7	Unsupervised Methods	11.01.19
8	Tools and Concepts for Large Data Sets	18.01.19
9	Data Privacy, Security & Visualization	25.01.19
10	Day of the Exam	01.02.19

**Application  
deadline:**  
2. September 2018

**Fee:** 6500 €  
(course and examination fee included)  
**Reduced Fee:** 5200 €  
for applicants from social, scientific and cultural facilities.