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| Module name | **Literature Studies in Machine Learning** |
| Module number | CMS-SEM-ML |
| Senior Lecturer | Prof. Dr. Björn Andres<br>bjoern.andres@tu-dresden.de |
| Qualification objectives | Students can independently develop knowledge of decision-making and optimisation problems, as well as machine learning algorithms from the literature. You can understand this knowledge, present it scientifically in English and respond to queries. |
| Contents | The module will include a decision-making problem, optimisation problem or machine learning process at the student's choice. |
| Forms of teaching and learning | The module includes seminars of 2 SWS and self-study. The language of the seminars will be English. |
| Eligibility for participation | The skills to be acquired in the CMS-COR-ML Machine Learning module are required. |
| Usability | In the Masters Course Computational Modeling and Simulation, the module is a compulsory optional module of basic scientific methodological training, to be chosen in accordance with Annex 1 to the Specific Examination Regulations. The module cannot be chosen in the Master's Course Computational Modeling and Simulation if this or a module with substantially the same content from a Course with which the entry conditions under § 3 of the Studienordnung have been met has already been completed. The module provides the pre-requisites for the modules it designates under the pre-requisites for participation. |
| Conditions for the award of credits | Credits are awarded when the module test is passed. The module test consists of a complex performance of 50 hours. The language of the test will be English. |
| Credits and marks | The module allows for 3 credit points. The module score corresponds to the test performance score. |
| Frequency of the module | The module is offered every summer semester. |
| Workload | The total workload is 90 hours. |
| Duration of the module | The module covers 1 semester. |