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| Georg-August-Universität Göttingen | | 6 C |
| Module B.Inf.1236: Machine Learning | | 4 WLH |
| Learning outcome, core skills: Students <ul style="list-style-type: none"> • learn concepts and techniques of machine learning and pattern recognition, understand their advantages and disadvantages compared to alternative approaches • learn to solve practical data science problems using machine learning and pattern recognition • implement machine learning techniques like PAC learning, support vector machines and kernel methods • learn techniques for optimization and regularization of machine learning and pattern recognition techniques | | Workload: Attendance time: 56 h Self-study time: 124 h |
| Course: Machine Learning (Lecture) Bishop: Pattern Recognition and Machine Learning. https://bit.ly/2KDkueT | | 2 WLH |
| Examination: Written examination (90 minutes) Examination prerequisites: B.Inf.1236.Ex: At least 50% of homework exercises solved. Examination requirements: Knowledge of basic machine learning and pattern recognition techniques, their advantages and disadvantages and approaches to optimization and regularization. Ability to implement these techniques. | | 6 C |
| Course: Machine Learning - Exercise (Exercise) | | 2 WLH |
| Admission requirements: none | Recommended previous knowledge: Knowledge of basic linear algebra and probability; knowledge of basics of machine learning | |
| Language: English | Person responsible for module: Prof. Dr. Alexander Ecker | |
| Course frequency: each summer semester | Duration: 1 semester[s] | |
| Number of repeat examinations permitted: twice | Recommended semester: | |
| Maximum number of students: 100 | | |