Course Manual DM

Data Mining

Version: 1 | Last Change: 27.09.2019 12:52 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

- General information

Long namo	Data Mining
Long name	
Approving CModule	<u>DM Batin</u>
Responsible	Prof. Dr. Beate Rhein Professor Fakultät IME
Valid from	summer semester 2022
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	78
ECTS	5
Professors	Prof. Dr. Beate Rhein Professor Fakultät IME
Requirements	From Mathematics 1 and 2 the ability to construct mathematical models as well as knowledge of differential calculus and linear algebra is required.
Language	German
Separate final exam	Yes

Literature

A. Geron: Praxiseinstieg Machine Learning mit Scikit-Learn und TensorFlow: Konzepte, Tools und Techniken für intelligente Systeme, Heidelberg, o'Reilly Verlag 2017, 978-3960090618

S. Raschka, V. Mirjalili: Machine Learning mit Python und Scikit-Learn und TensorFlow: Das umfassende Praxis-Handbuch für Data Science, Predictive Analytics und Deep Learning, mitp Verlag, 2018, 978-3958457331

J. Frochte, Jörg: Maschinelles Lernen, München, Carl Hanser Verlag GmbH & Co. KG, 2018, eBook ISBN: 978-3-446-45705-8, Print ISBN: 978-3-446-45291-6

A. Müller: Einführung in Machine Learning mit Python: Praxiswissen Data Science, Heidelberg, o'Reilly Verlag 2017, eBook: 978-3-96010-111-6

Final exam

Details	Depending on the number of participants: For a small number of participants: combination of exam or oral examination and evaluation of the mini- project. For many participants, examination by written examination; mini- project as prerequisite for participation in the examination.
	In the written or oral examination, the methods, procedures, pitfalls and legal foundations of data mining are examined. In the mini-project the ability to act independently and on one's own responsibility and the use of suitable
Minimum standard	software will be tested. Basic knowledge of the general approach to data mining, the procedures covered and their limitations.
Exam Type	EN andere summarische Prüfungsform

- Lecture / Exercises

Special requirement	nts
none	
Accompanying material	Script or set of slides Tasks (expected to be
	integrated into the script) Mini project task with data set
Separate exam	No

Exercises (whole course) 0

Lecture

2

Exercises (shared course)	2	
Tutorial (voluntary)	0	

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