HAW Kiel
Hochschule für Angewandte Wissenschaften Kiel
Kiel University of Applied Sciences

MADS-T - Thesis

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General information	
Module Code	MADS-T
Unique Identifier	
Module Leader(s)	Prof. Dr. Doerfel, Stephan (stephan.doerfel@haw-kiel.de) Prof. Dr. Schwörer, Tillmann (tillmann.schwoerer@haw-kiel.de) Prof. Dr. Prange, Michael (michael.prange@haw-kiel.de)
Lecturer(s)	Prof. Dr. Doerfel, Stephan (stephan.doerfel@haw-kiel.de) Prof. Dr. Prange, Michael (michael.prange@haw-kiel.de) Prof. Dr. Schwörer, Tillmann (tillmann.schwoerer@haw-kiel.de)
Offered in Semester	Sommersemester 2024
Module duration	1 Semester
Occurrence frequency	Regular
Module occurrence	In der Regel jedes Semester
Language	Englisch
Recommended for international students	Yes
Can be attended with different study programme	No

Curricular relevance (according to examination regulations)

Study Subject: M.Sc. - DS - Data Science
Module type: Pflichtmodul
Semester: 3

Qualification outcome

Areas of Competence: Knowledge and Understanding; Use, application and generation of knowledge; Communication and cooperation; Scientific self-understanding / professionalism.

Students
- are able to translate a practically or academically relevant data science problem into a theoretical research framework.
- can familiarize themselves with the relevant research publications and possibly identify research gaps and are capable to provide a theoretical overview summarizing the current state of research.
- can identify and select the appropriate research methodology to address the chosen research question.

Students
- are able to professionally prepare and execute a project own their own, either in an academic or corporate environment, delivering the results in time.
- are able to apply their competencies to analyze, structure and solve complex problems, building on state of the art technologies and methods.
- are able to prepare a research paper in compliance with norms for academic and scholarly expression and for publication in the public domain.

Students - are capable to organize themselves individually in an effective manner to set the right priorities and manage their resources to successfully meet the requested academic requirements. - are capable to present and defend their research project in front of a qualified academic audience. - respond to criticism in an open self-reflective constructive manner.
Students - can apply the academic rules of conduct expected by a researcher to achieve an objective, valid, reliable and ethically justifiable research outcome. - can conduct themselves in a professional and respectful manner in particular with respect to the time made available by their supervisor by being well prepared for meetings and request for appointments in writing with the questions and or issues to be addressed clearly laid out in advance.

Content information	
Content	In the Master Thesis, the candidate should demonstrate that he or she is able to independently carry out a research project in any of the disciplines offered by the Data Science Master program such as Machine Learning, Deep Learning, Data Management, Cloud Computing, Big Data Technologies, Data Visualization, Natural Language Processing, or some related field. The Master Thesis can be either an academic research project or a practical data science project in a corporate environment. The topic of the thesis is determined in consultation with the candidate and the supervising lecturer.

Teaching formats of the courses	
Teaching format	**SWS**
Keine Präsenzzeit	0

Workload	
Number of SWS	0 SWS
Credits	25,00 Credits
Contact hours	0 Hours
Self study	750 Hours

Module Examination	
Examination prerequisites according to exam regulations	For admission to the final thesis, all examinations of the compulsory modules must have been passed.
MADS-T - Abschlussarbeit (Thesis)	Method of Examination: Abschlussarbeit (Thesis) Weighting: 100% wird angerechnet gem. § 11 Absatz 2 PVO: No Graded: Yes