Chair / Professor	Requirements		
Prof. Dr.	Data Mining or	at least 1 specialization Course of the DWS Group	Programming skills in JAVA and if any Python or R
Christian Bizer	• LSDM or		
	Decision Support		
	Data Mining	at least 1 specialization Course of the DWS Group	Programming skills in JAVA or Python
Heiko Paulheim	0		, , , , , , , , , , , , , , , , , , ,
Prof. Dr. Heiner	One of the following:	Programming skills in Python (preferred) or JAVA	
Stuckenschmidt	IE694 Industrial Applications of AI		
	• Participation in one of our team projects		
	IS515 Process Management and Analytics		
	AND IE692 Advanced Process Mining		
	• IE675b Machine learning AND at least 1		
	course from the Area Operations		
	Management (see MMM module		
	Handbook)		
	• Attended a seminar or team project with		
	Prof. Stuckenschmidt		
Prof. Dr. Rainer	• IE675b Machine learning or	At least 3 fundamental or specialization courses of	Programming skills in Java and/or Python
	• IE 678 Deep Learning or	the DWS group	
	• CS 560 Large-Scale Data Management <i>or</i>		
	CS 707 Data and Web Science Seminar		
Prof. Dr.	Algorithmics (CS 550) or	Good programming skills in JAVA or C/C++	
	• Kryptographie II ((CS 651) or		
	Courses in Algorithmics / Data Structures or		
	Cryptography or Theoretical Computer Science or		
	Compexity Theory at B.Sc. or M.Sc. level		
Prof. Dr. Simone	• LSDM or	Information Retrieval & Web Search or	programming skills in at least one high-level
Ponzetto	Decision Support	• Text Analytics <i>or</i>	programming language (e.g. Java, Python, C++, C#, R
		Hot Topics in Machine Learning <i>or</i>	and Matlab)
		Data Mining and Matrices	
Prof. Dr. Guido	Seminar of Prof. Moerkotte or	Data Base Systems II	Programming skills
	Seminar of Prof. Krause or		
	Seminar of Prof. Gemulla		
Prof. Dr. Colin	Advanced Software Engineering	Ability to program in an OO language (e.g. Java,	
Atkinson		Python etc.)	
	Algorithmics or	Good programming skills (e.g. in JAVA or C++)	
	• Cryptography II <i>or</i>		
-	• Data Security (as of FSS2020) or		
	 Cryptography I or 		
	Selected Topics in IT-Security		

Prof. Dr. Armin	• successful completion of a seminar of the Area IS		
Heinzl			
Prof. Dr. Roland	At least one course/one seminar in the area of	Good programming skills in JAVA or C/C++	
Leißa	Algorithmics		
	 Software Engineering 		
	 Programming Languages 		
	 Concurrent programming 		
	Graphics		
	Image Processing		
	Security		
JunProf. Dr.	At least 1 specialization course of the DWS Group	Experience and advanced skills in academic writing	
Philipp Kellmeyer			
Prof. DrIng.	At least 1 of the following courses:		
Margret Keuper	 CS668 Generative Computer Vision Models 		
	 CS646 Higher Level Computer Vision 		
	CS647 Image Processing		
Prof. Dr Ratkovic	Background in applied data analysis and at least 2 of:	 Programming skills in Python and R 	
	Causal Inference	 Work on LLMs/deep learning with 	
	Machine Learning	applications to social sciences	
	 Natural Language Processing 	 Mathematical training 	
	Mathematical statistics		