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		
Prof. Dr.	Data Mining	at least 1 specialization Course of the DWS Group	Programming skills in JAVA or Python
Heiko Paulheim			
Prof. Dr. Heiner	One of the following:	Programming skills in Python (preferred) or JAVA	Attended a seminar or team project with Prof.
Stuckenschmidt	<ul> <li>IE694 Industrial Applications of AI</li> </ul>		Stuckenschmidt
	<ul> <li>Participation in one of our team projects</li> </ul>		
	<ul> <li>IS515 Process Management and Analytics</li> </ul>		
	AND IE692 Advanced Process Mining		
	<ul> <li>IE675b Machine learning AND at least 1</li> </ul>		
	course from the Area Operations		
	Management (see MMM module		
	Handbook)		
Prof. Dr. Rainer	Data Mining I or	At least 3 fundamental or specialization courses of	Programming skills in Java and/or Python
Gemulla	• LSDM or	the DWS group	
	Machine Learning		
Prof. Dr.	• Algorithmics (CS 550) or	Good programming skills in JAVA or C/C++	
Matthias Krause	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	<ul> <li>Information Retrieval &amp; Web Search or</li> </ul>	programming skills in at least one high-level
Ponzetto	Decision Support	Text Analytics or	programming language (e.g. Java, Python, C++, C#, R
		<ul> <li>Hot Topics in Machine Learning or</li> </ul>	and Matlab)
		Data Mining and Matrices	
Prof. Dr. Guido	• Seminar of Prof. Moerkotte <i>or</i>	Data Base Systems II	Programming skills
Moerkotte	• Seminar of Prof. Krause <i>or</i>		
	Seminar of Prof. Gemulla		
Prof. Dr. Colin	Advanced Software Engineering	Ability to program in an OO language (e.g. Java,	
Atkinson		Python etc.)	
Prof. Dr. Frederik	Algorithmics or	Good programming skills (e.g. in JAVA or C++)	
Armknecht	Cryptography II or		
	• 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			

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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	<ul> <li>CS668 Generative Computer Vision Models</li> </ul>	
	<ul> <li>CS646 Higher Level Computer Vision</li> </ul>	
	CS647 Image Processing	
Prof. Dr Ratkovic	Background in applied data analysis and at least 2 of:	Programming skills in Python and R
	Causal Inference	
	Machine Learning	
	<ul> <li>Natural Language Processing</li> </ul>	
	Mathematical statistics	