













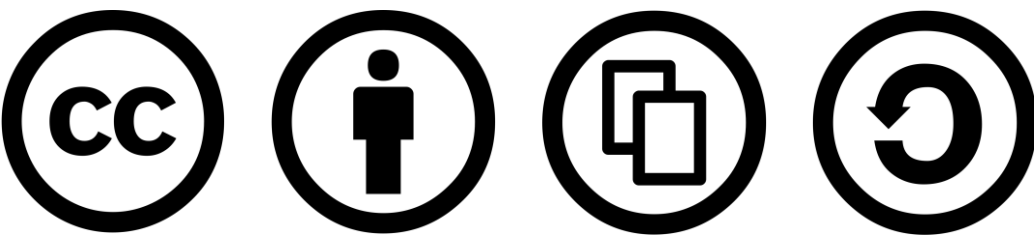


The Data Science Canvas

Date:	Attendees:
Project:	Resulting Tasks:

Problem Statement				Execution & Evaluation		Data Collection & Preparation	
<div>Business Case & Value Added Which business case should be analyzed and what added value does it generate? </div>	<div>Model Selection Which analysis methods can be considered on the basis of the specific data landscape and the business case? </div>	<div>Model Requirements Which model requirements must be complied with in order to obtain a valid model? </div>	<div>Skills What skills are needed to provide the data and model development? </div>	<div>Model Evaluation Which indicators require quality control and validation and how should they be interpreted? Is real-time monitoring necessary? </div>	<div>Data Storytelling What requirements does the target group have for the presentation of the results and how do I effectively communicate this data? </div>	<div>Data Selection & Cleansing Which of the available data is relevant? Do the data have to be cleaned up? </div>	<div>Data Collection How and with which methods should additionally required data be collected? What properties has this data to fulfil? </div>
<div>Data Landscape Which data is required for this and which is already available? Which additional data has to be collected? </div>		<div>Software & Libraries Which software should be used? Is there already a standard solution? Which libraries are used? </div>		<div>Data Integration In which system should the data from different sources be migrated? </div>	<div>Explorative Data Analysis Are there outliers or structures to be considered? Creation of descriptive key figures for the first assessment of the data. </div>		
<div>Costs What are the cost categories? How high will the costs be? </div>				<div>Revenues How can the model generate revenue? Does the project reduce costs? </div>			



Designed by:
Thomas Neifer, Dennis Lawo, Margarita Esau, Paul Bossauer,
Lukas Böhm, Gunnar Stevens

Citation:
Thomas Neifer, Dennis Lawo, Margarita Esau, Paul Bossauer, Lukas Böhm, Gunnar
Stevens (2021). Data Science Canvas. <https://github.com/tomalytics/datasciencecanvas>

Related Publication:
Neifer, T., Lawo, D., & Esau, M. (2021). Data Science Canvas: Evaluation of a Tool to Manage Data
Science Projects. In *Proceedings of the 54rd Hawaii International Conference on System Sciences*.