# zh

## Wissenschaftliches Vorgehen: Der beste Weg zu guter Praxis

Thilo Stadelmann

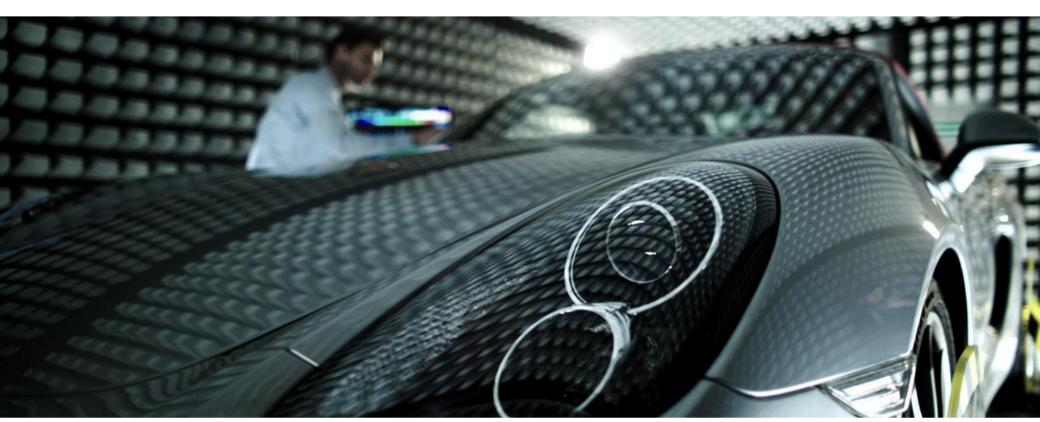
### BEST TEACHING – BEST PRACTICES: VERMITTLUNG VON WISSENSCHAFTLICHKEIT

06. SEPTEMBER 2017, ZÜRICH, TONI-AREAL.



#### Wie entwickelt man ein Produkt?



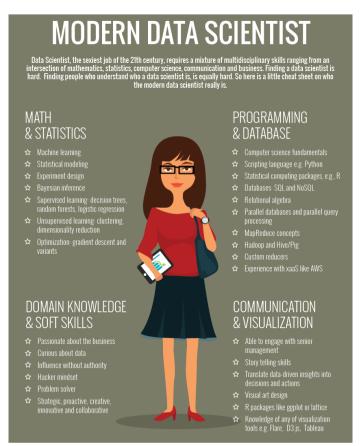


Quelle: Produktentstehungsprozess - Vom Konzept zur Serie. http://www.porscheengineering.com/peg/de/services/

Zürcher Fachhochschule

### Wie entwickelt man ein Datenprodukt?



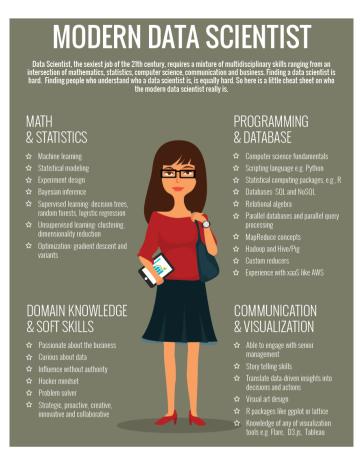


Quelle: Marketing Distillery – the modern data scientist graphic. http://www.marketingdistillery.com/wp-content/uploads/2014/11/mds\_f.png

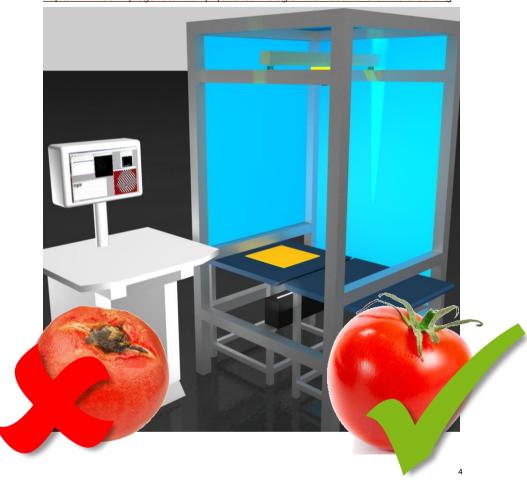
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### Wie entwickelt man ein Datenprodukt?





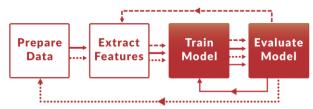
Quelle: Marketing Distillery – the modern data scientist graphic. http://www.marketingdistillery.com/wp-content/uploads/2014/11/mds\_f.png Quelle: Industrielle Bildverarbeitung – ...ich sehe was, was du nicht siehst. http://www.fraenz-jaeger.de/index.php/de/technologien-de/industrielle-bildverarbeitung



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#### Schlüssel: Die Wissenschaftliche Methode

#### Maschinelles Lernen in der Praxis

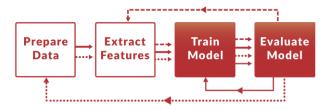


Quelle: data-intelligence.ai

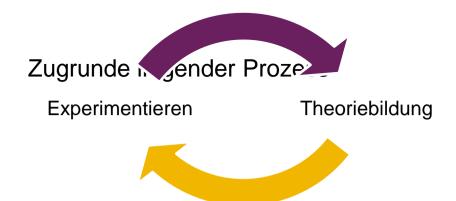
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#### Maschinelles Lernen in der Praxis



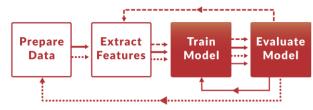
Quelle: data-intelligence.ai



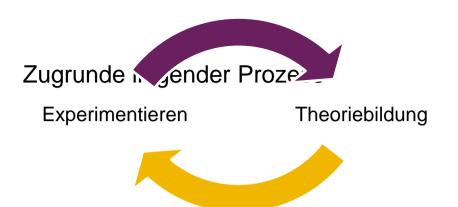
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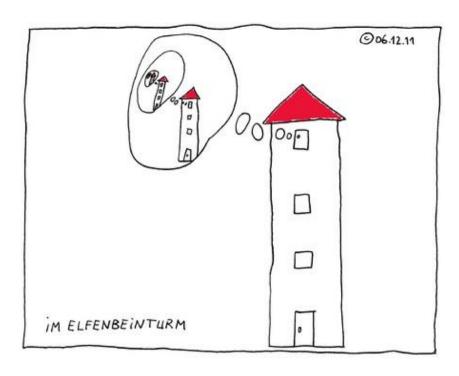


#### Maschinelles Lernen in der Praxis



Quelle: data-intelligence.ai



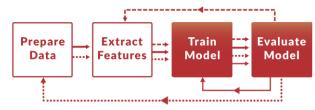


Quelle: Elfenbeinturm by Müller. https://www.toonpool.com/cartoons/Elfenbeinturm\_173927

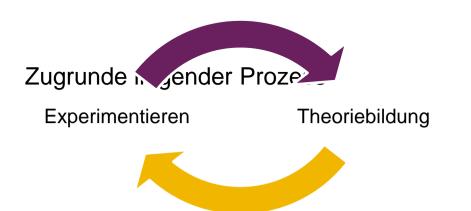
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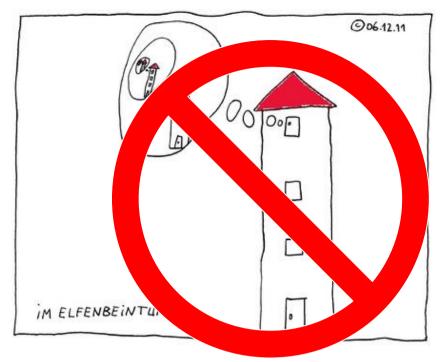


#### Maschinelles Lernen in der Praxis



Quelle: data-intelligence.ai



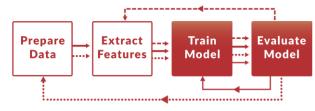


Quelle: Elfenbeinturm by Müller. https://www.toonpool.com/cartoons/Elfenbeinturm\_173927

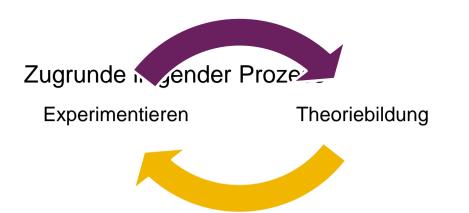
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#### Maschinelles Lernen in der Praxis



Quelle: data-intelligence.ai





Quelle: Elfenbeinturm by Müller. https://www.toonpool.com/cartoons/Elfenbeinturm\_173927

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## Schlüsselkompetenzen (nicht nur) für





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**Datenwissenschaftler** 



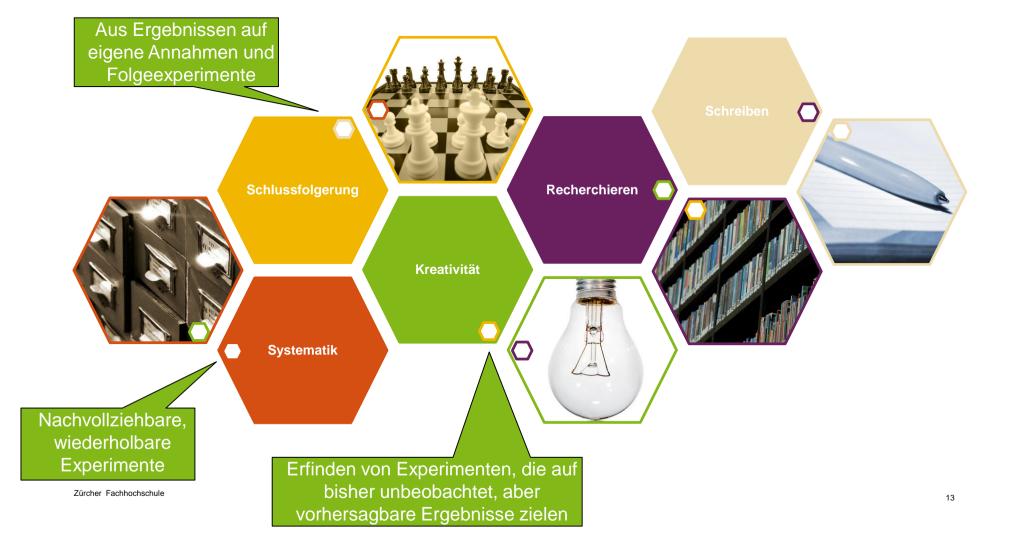


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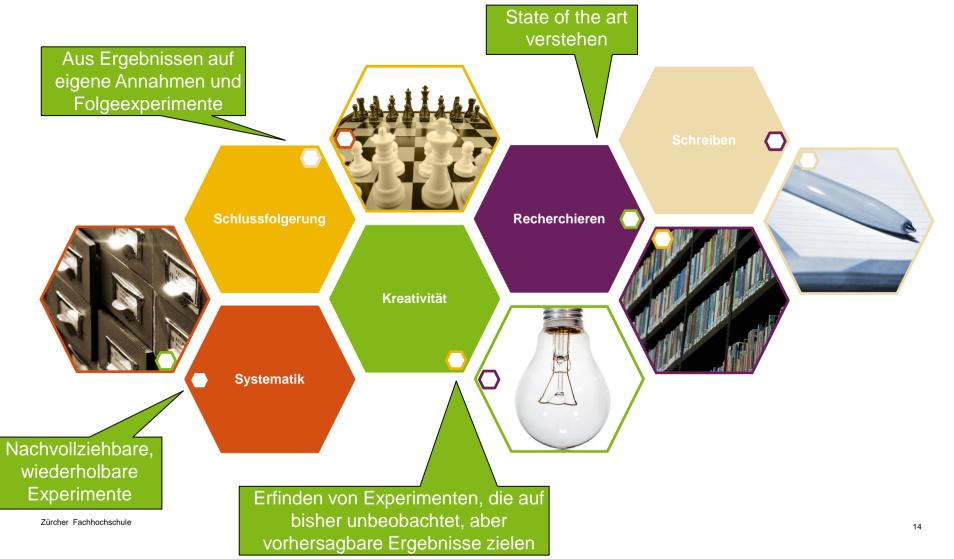




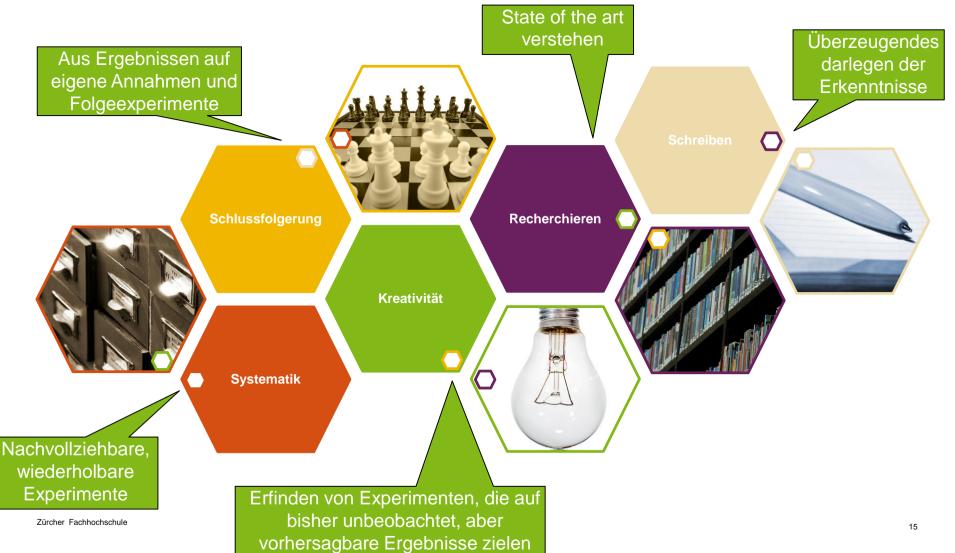












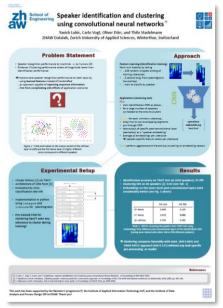
#### Zürcher Hochschule für Angewandte Wissenschaften

#### **Fazit**

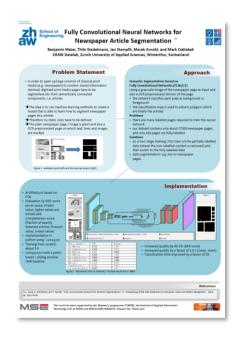


### Das Arbeiten anhand der wissenschaftlichen Methode erlaubt die Entwicklung relevanter und praxistauglicher Data Products

**Applied Science** ist also das Anwenden der wissenschaftlichen Methode **zur Lösung** eines **neuen**, konkreten **Use-Cases** 









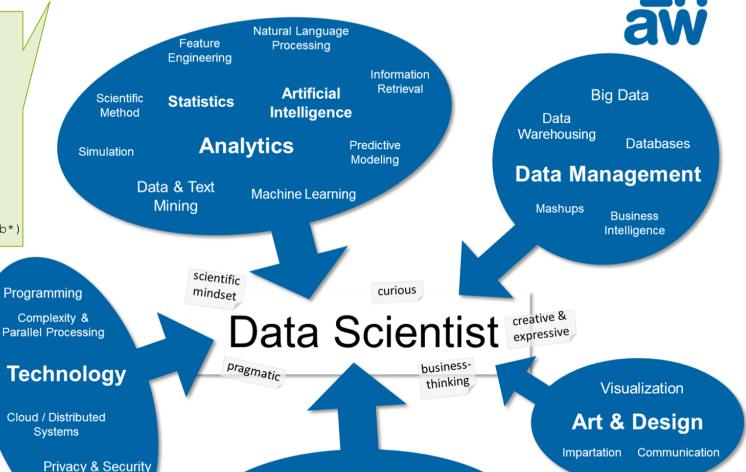
### **APPENDIX**

#### What is Data Science?

#### **Enables Data Products**

- → Applied Science
- → Interdisciplinary

Data Science := "Unique blend of skills from analytics, engineering & communication aiming at generating value from the data itself [...]" (ZHAW Datalab\*)



**Data Product Design** 

**Entrepreneurship** 

Domain

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Knowledge

Service Engineering

Ethics &

Values

ICT Infrastructure