



«Human-Centered Data Science»

Exercise 3

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10.05.2022





Assignment 1 Review

Get together in your group

What to consider:

- » Go through the tasks and discuss how you solved them
- » Are there any open questions?
- » Was there anything that particularly caught your eye?

After you reviewed each other, at your group's name to the done.txt file in:

https://github.com/FUB-HCC/hcds-summer-2022/tree/main/assignments/A1_R1_WarmUp/done.txt







Assignment 1 Insights







Lecture Recap

Incorporating Principles in Your Data Science Practice







Incorporating Principles in Your Data Science Practice

Principles

Professional Responsibility

Promotion of Human Values

Fairness and Non-discrimination

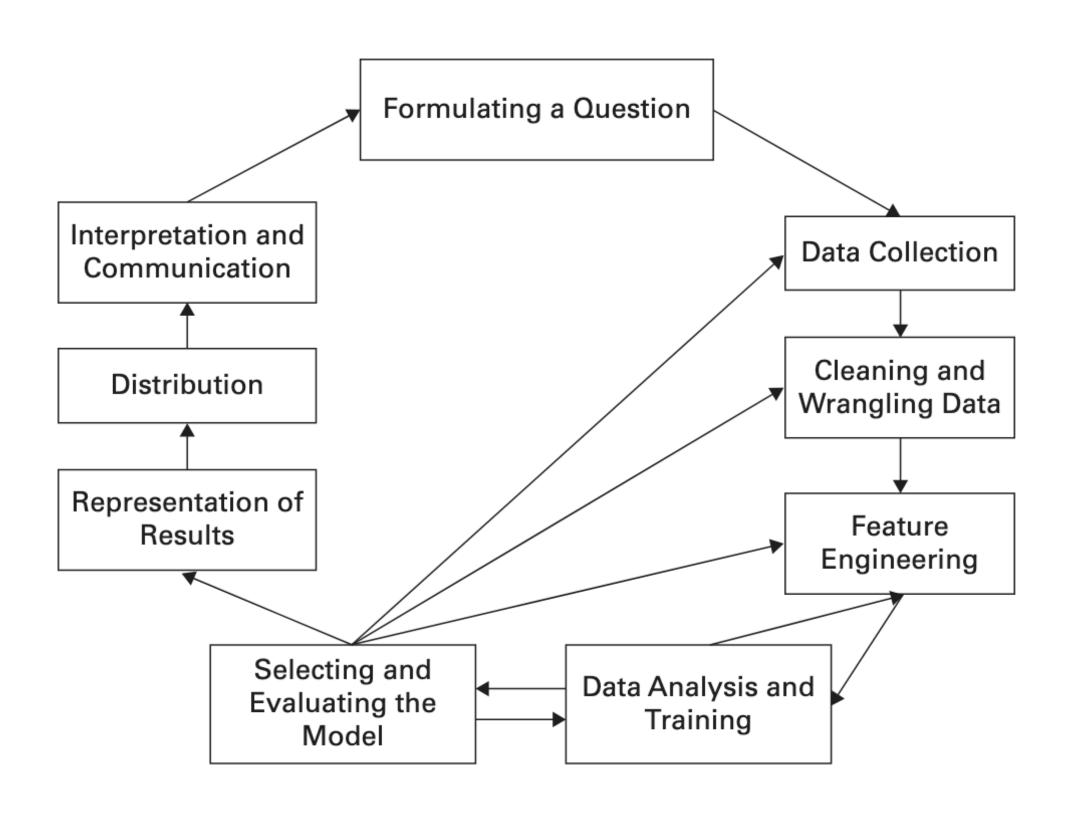
Human Control of Technology

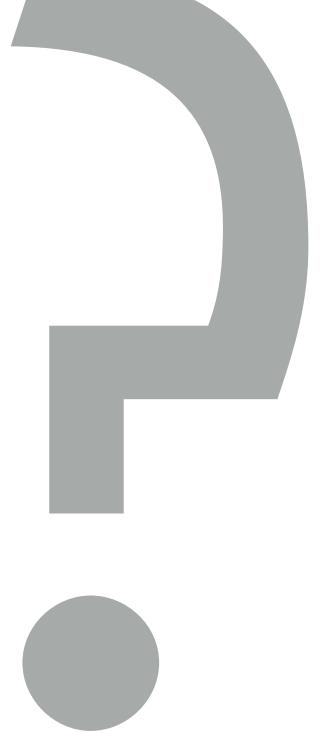
Safety and Security

Transparency and Explainability

Accountability

Privacy











Incorporating Principles in Your Data Science Practice (2)

Principles

Professional Responsibility

Promotion of Human Values

Fairness and Non-discrimination

Human Control of Technology

Safety and Security

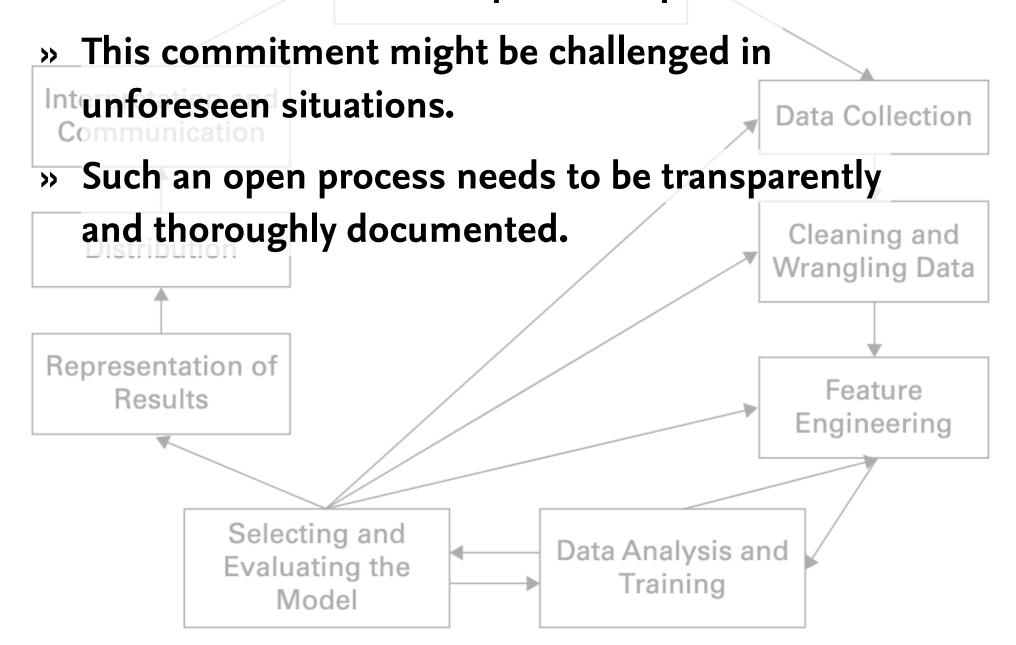
Transparency and Explainability

Accountability

Privacy

Development of a shared ethos

» Ethos is a moral commitment or stance, a moral attitude that underlies a particular practice.



Frauenberger, Christopher, Marjo Rauhala, und Geraldine Fitzpatrick. "In-Action Ethics". _Interacting with Computers_ 29, Nr. 2 (8. März 2017): 220–36.







Incorporating Principles in Your Data Science Practice (3)

Principles

Professional Responsibility

Promotion of Human Values

Fairness and Non-discrimination

Human Control of Technology

Safety and Security

Transparency and Explainability

Accountability

Privacy

Development of a shared ethos

- » Ethos is a moral commitment or stance, a moral attitude that underlies a particular practice.
- >> This commitment might be challenged in Intunforeseen situations.
 >> Such an open process needs to be transparently and thoroughly documented.

 Cleaning and Wrangling Data

 Feature Engineering

"Values [can be] defined as goals that are desirable, worthwhile, or good, and are perceived to transcend particular situations to be broadly applicable to social life"





Incorporating Principles in Your Data Science Practice (4)

Principles

Professional Responsibility

Promotion of Human Values

Fairness and Non-discrimination

Human Control of Technology

Safety and Security

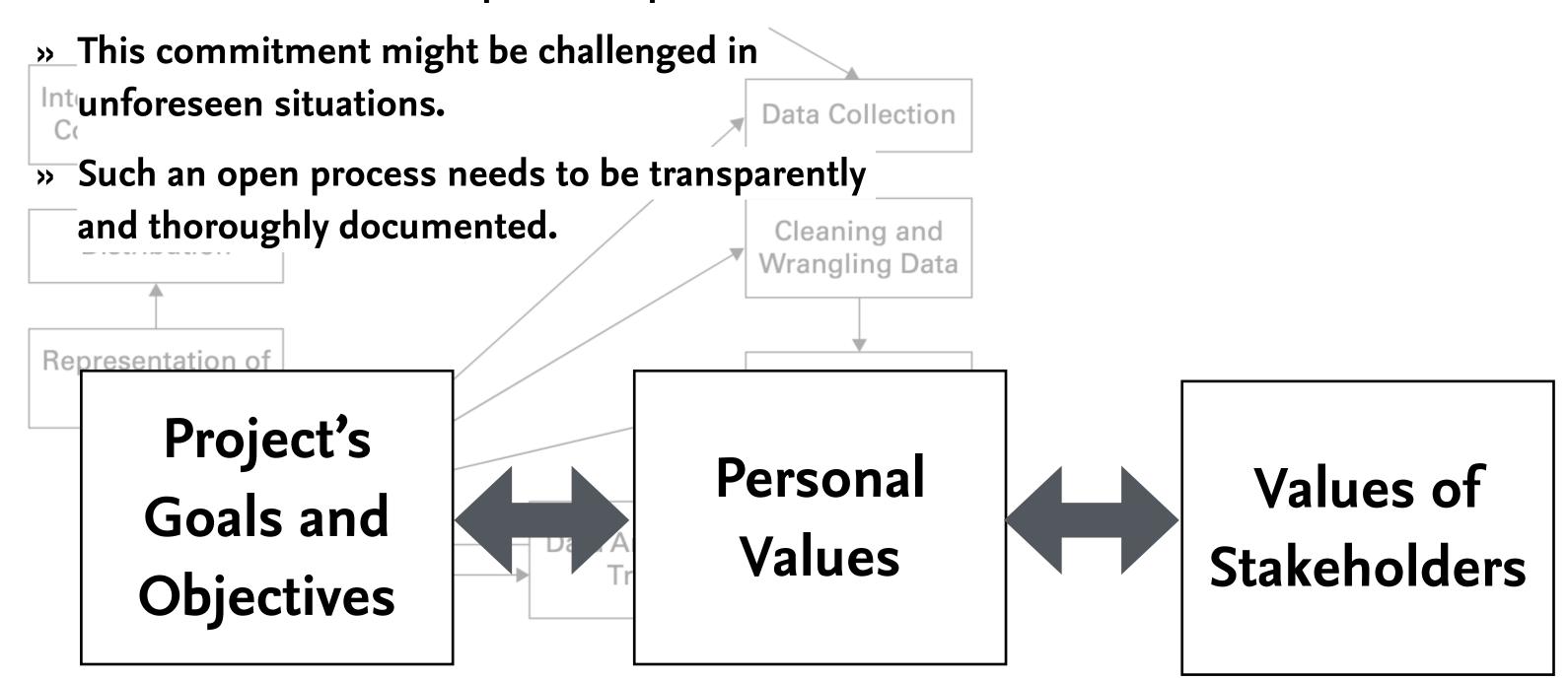
Transparency and Explainability

Accountability

Privacy

Development of a shared ethos

» Ethos is a moral commitment or stance, a moral attitude that underlies a particular practice.







Values Exercise

https://github.com/FUB-HCC/hcds-summer-2022/wiki/03_exercise







Case

You are working as an engineer in a medium-sized StartUp, offering AI services to business customers. During your weekly team meeting, your product managers explains the next product you will be working on. The CEO of your company is friends with the head of a local bank in your city. Together they decided that it would be great if your company would help the local bank out by using AI to speed up their credit approval process. This fast-track approval should simultaneously decrease bad decisions which, according to the bank, may be caused by sub-optimal human judgment, while also improving the costs of the process. As a result, the friend's bank should have a competitive advantage over the other local banks in the area, who are still employing humans for every part of the process.







Case ctd.

Your team gets tasked to look into an example dataset (similar to the German Credit data), which was provided by the bank for this cooperation. In the end, a report should be created that highlights all the different solutions your team could offer.





Task Description

- Think about your team's personal values and how they relate to ...
 - ... the potential values of your CEO, product manager, and your client.
 - ... the values of your stakeholder, the people that are directly or indirectly affected by your data-driven system.
- [Optional] Establish a personal hierarchy of your values.
- [Optional] Envision the product solutions you would propose adhering to your values, and what solutions are out of the question.





Task Insights







Next Time

you will have ...

- 1. actively participated in the lecture
- 2. submitted the second programming assignment (Due 17.05.22 10 a.m.)

Have fun!

