An AI for Computing Carbon Footprints
What’s this all about?

VS.

Heiko Paulheim, Nicolas Heist, Sven Hertling
What’s this all about?

VS.

- paper (wood)
- regular transport
- ...

- electricity (source?)
- plastic + metal parts
- electronic parts
- ...

Heiko Paulheim, Nicolas Heist, Sven Hertling
Envisioned Solution

What is the carbon footprint of this?

Knowledge Graph

Inference Engine

- Product databases
- Carbon footprint lists
- ...

Users

Heiko Paulheim, Nicolas Heist, Sven Hertling
Your Tasks & Challenges

- Overall goal: Develop an AI that helps analyzing carbon footprint
- Select a Use Case
- Collect suitable data sources
- Combine them in a knowledge graph
- Add inference on top
- Develop UI/Query Interface
- Run Evaluation
Us...

Heiko Paulheim, DWS

Nicolas Heist, DWS

Sven Hertling, DWS
You...

...have attended a few AI related lectures, e.g.,
  ...Knowledge Graphs (mandatory)
  ...Data Mining, Machine Learning,
  Decision Support (would be a plus)
...are knowledgeable in programming

...want to work on a project with social impact!