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

VS.

VS.

VS.

Heiko Paulheim, Franz Krause
What’s this all about? (example)

- paper (wood)
- bleach
- transportation
- ...

VS.

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

Heiko Paulheim, Franz Krause
Envisioned Solution

What is the carbon footprint of a (vegan) Schnitzel?

- Product databases
- Carbon footprint lists
- ...

Heiko Paulheim, Franz Krause
Your Tasks & Challenges

• **Overall goal:** Develop an AI that helps estimating carbon footprints

• 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

Franz Krause, DWS
You...

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

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