

Die Technik hinter der künstlichen Intelligenz

Marlies Temper

Ich bin Data Scientist



DATA SCIENCE
COMMUNITY

Künstliche Intelligenz



Midjourney

ChatGPT



Examples

"Explain quantum computing in simple terms" →

"Got any creative ideas for a 10 year old's birthday?" →

"How do I make an HTTP request in Javascript?" →



Capabilities

Remembers what user said earlier in the conversation

Allows user to provide follow-up corrections

Trained to decline inappropriate requests



Limitations

May occasionally generate incorrect information

May occasionally produce harmful instructions or biased content

Limited knowledge of world and events after 2021

ChatGPT



Use Case



KI

Use Case

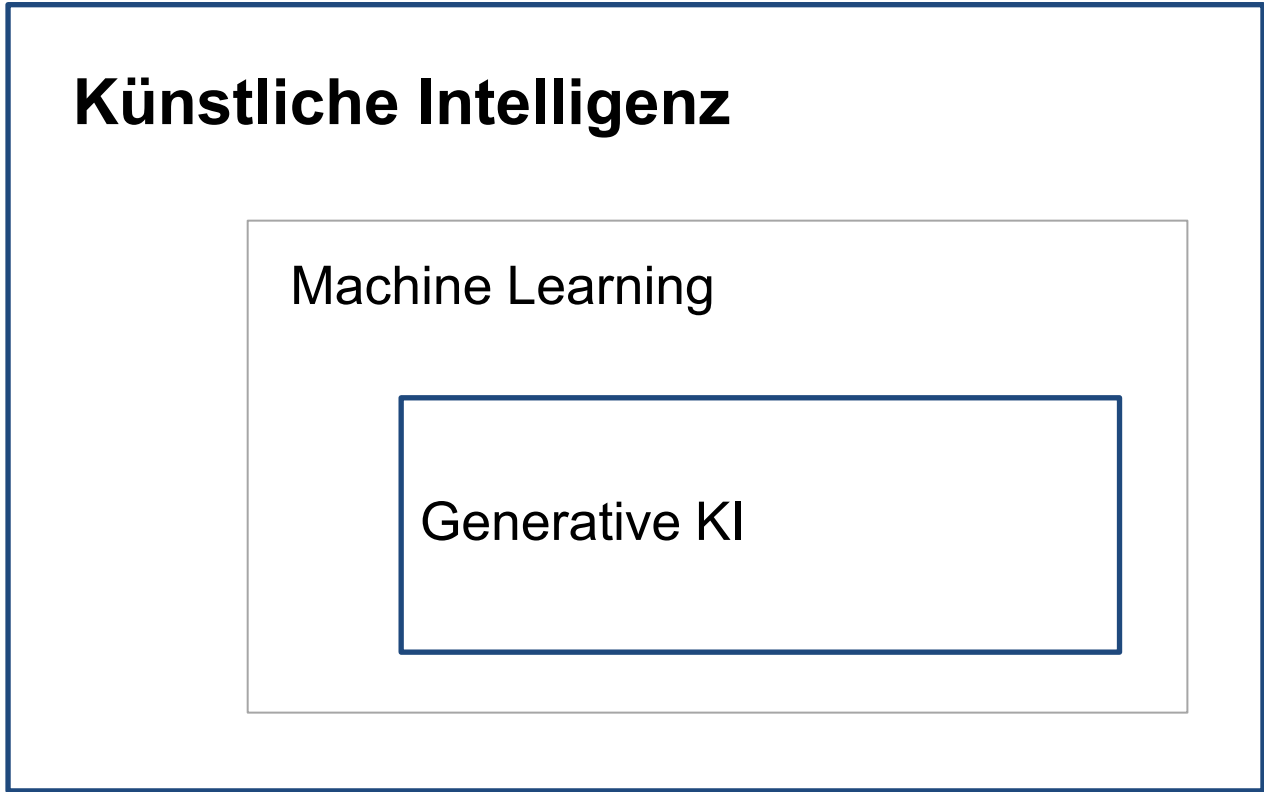
Use Case





Use Case

Definition



**KI kann Vorhersagen, Inhalte,
Empfehlungen oder Entscheidungen
generieren**

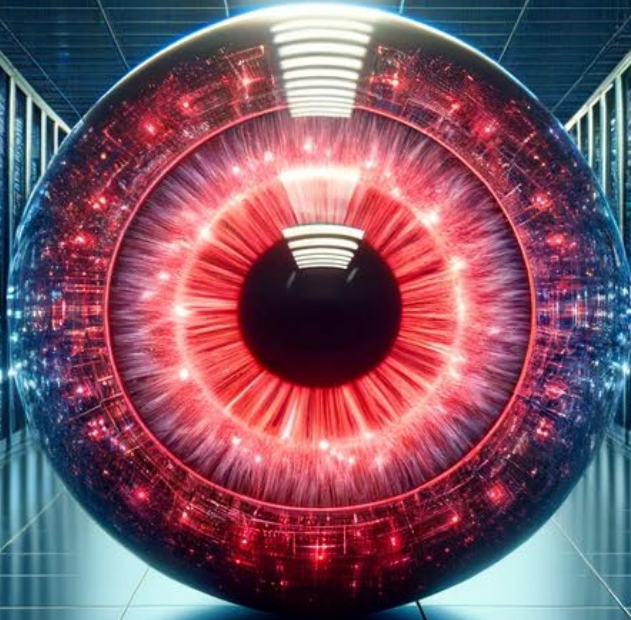
Fundament

fh
st. pölten



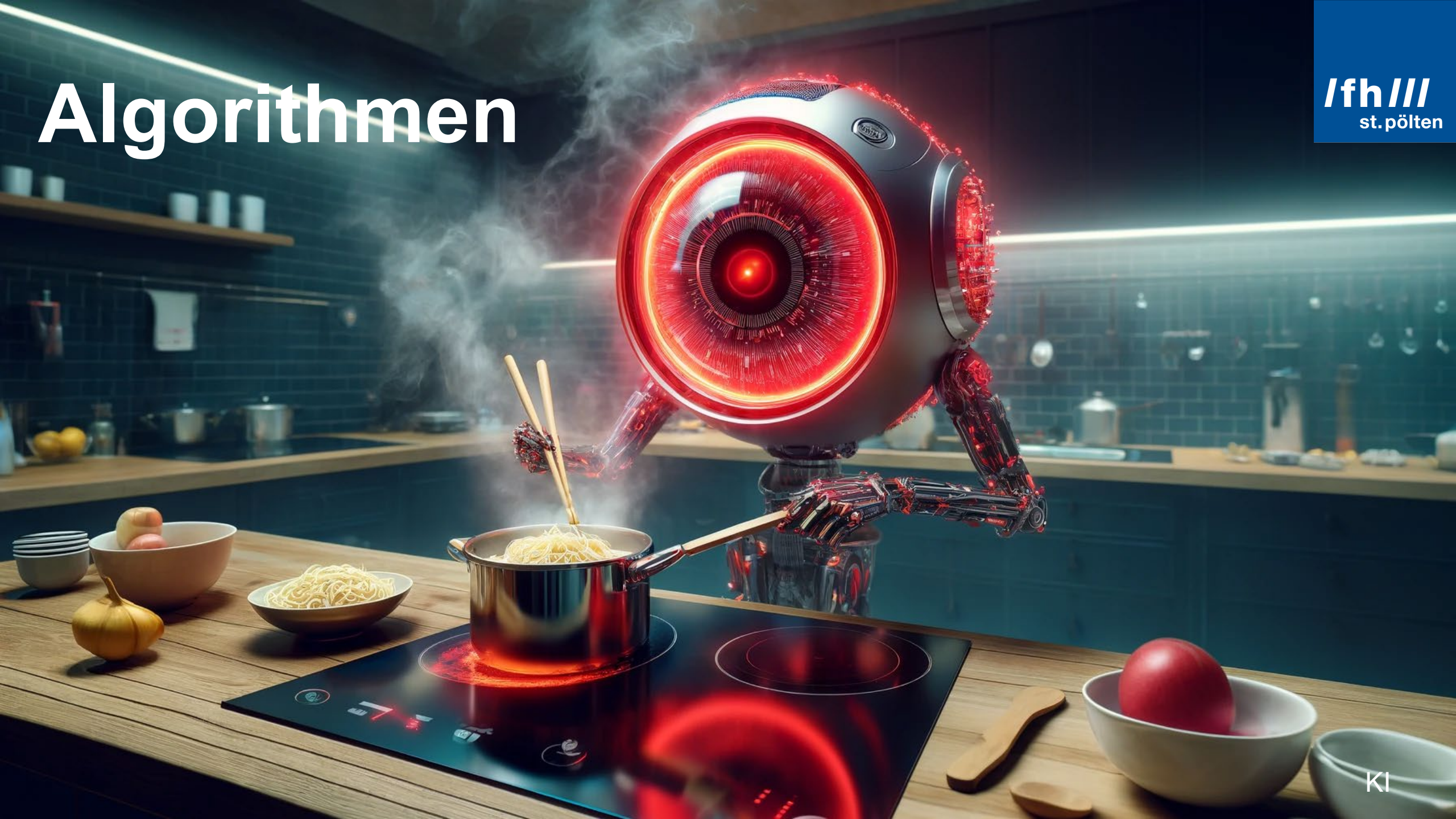
Daten

KI

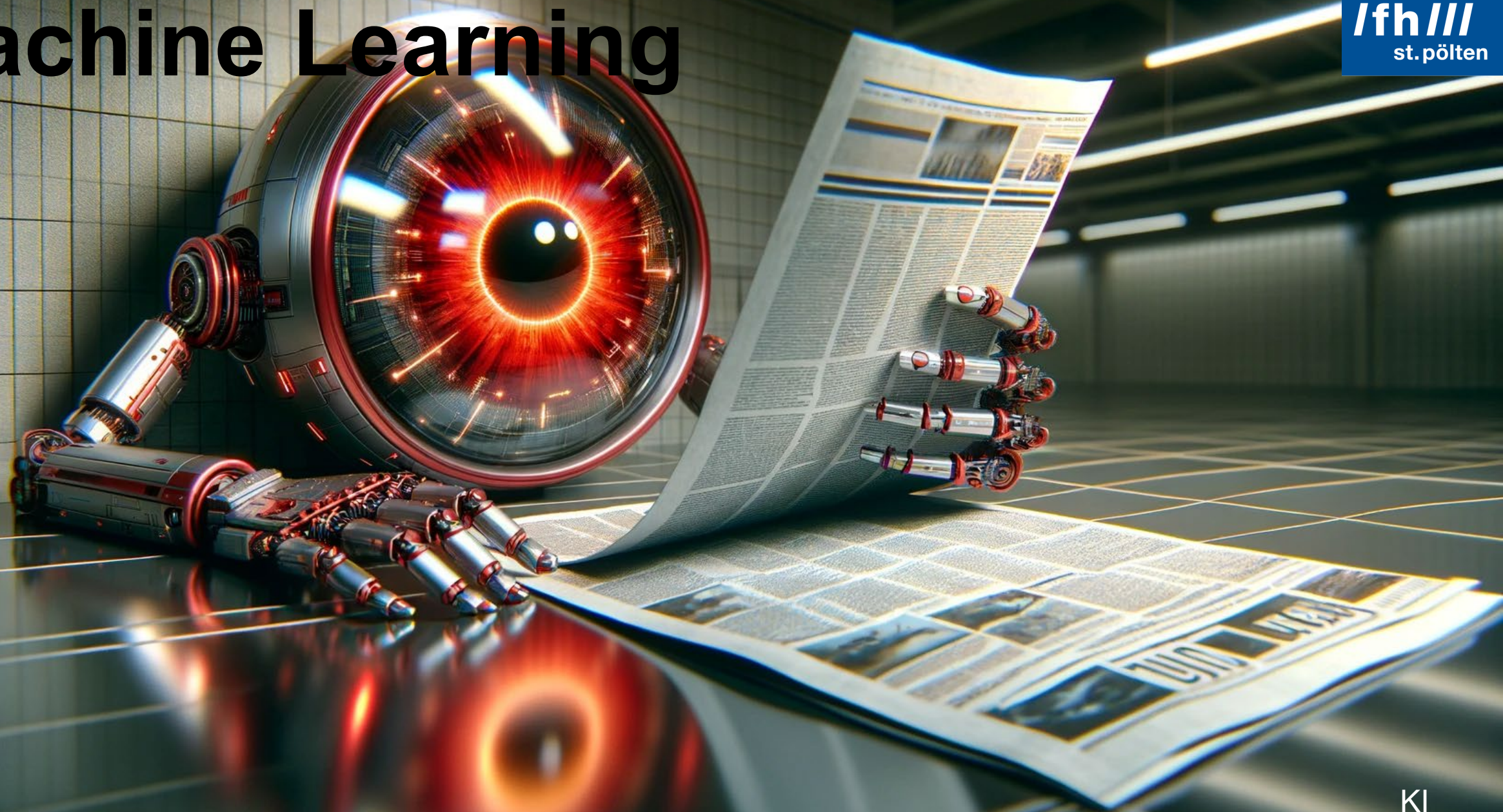


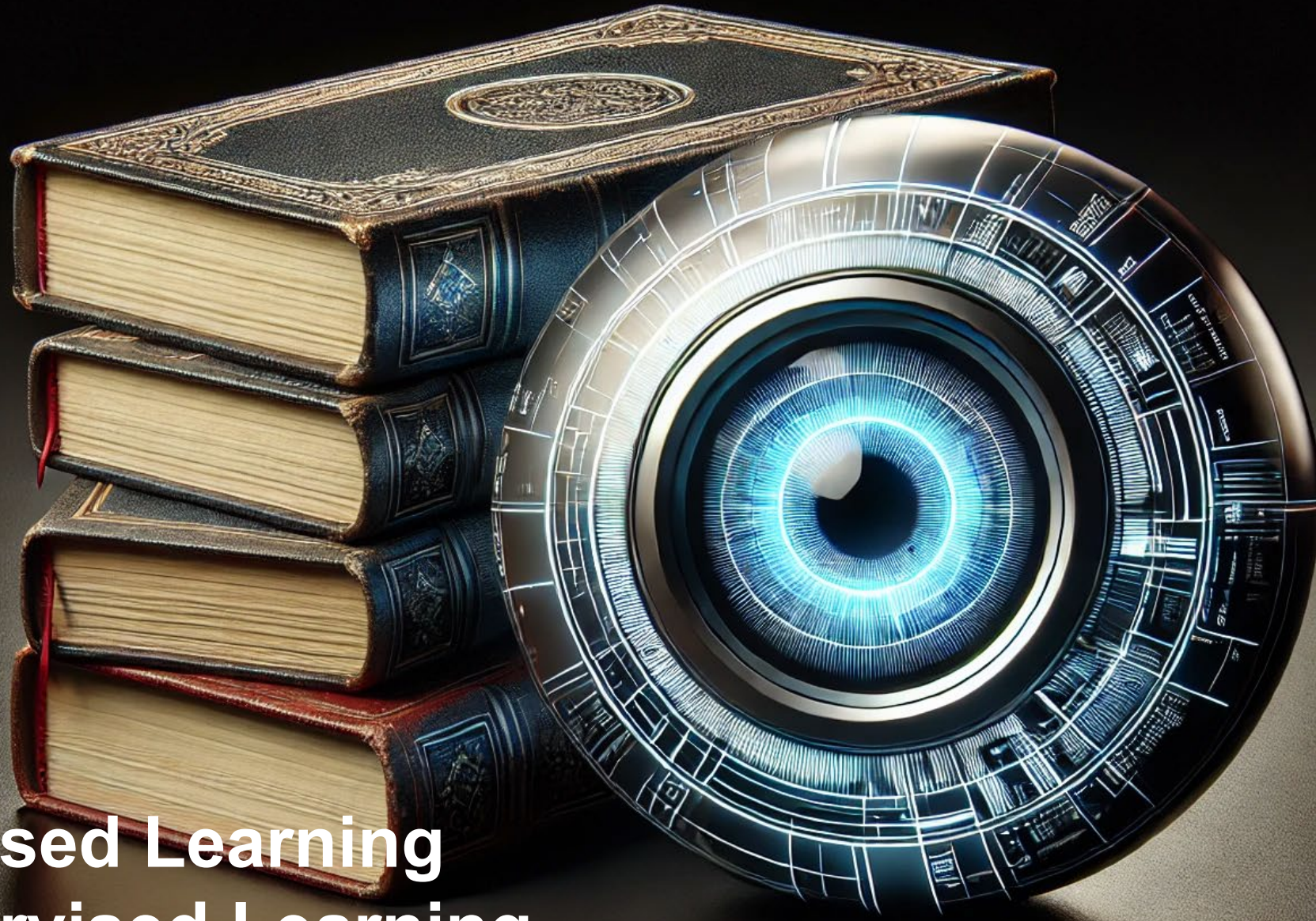
Big Data

Algorithmen



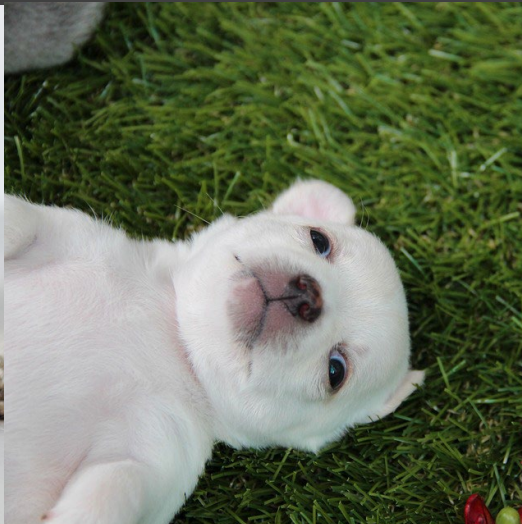
Machine Learning





Supervised Learning
Unsupervised Learning
Reinforcement Learning

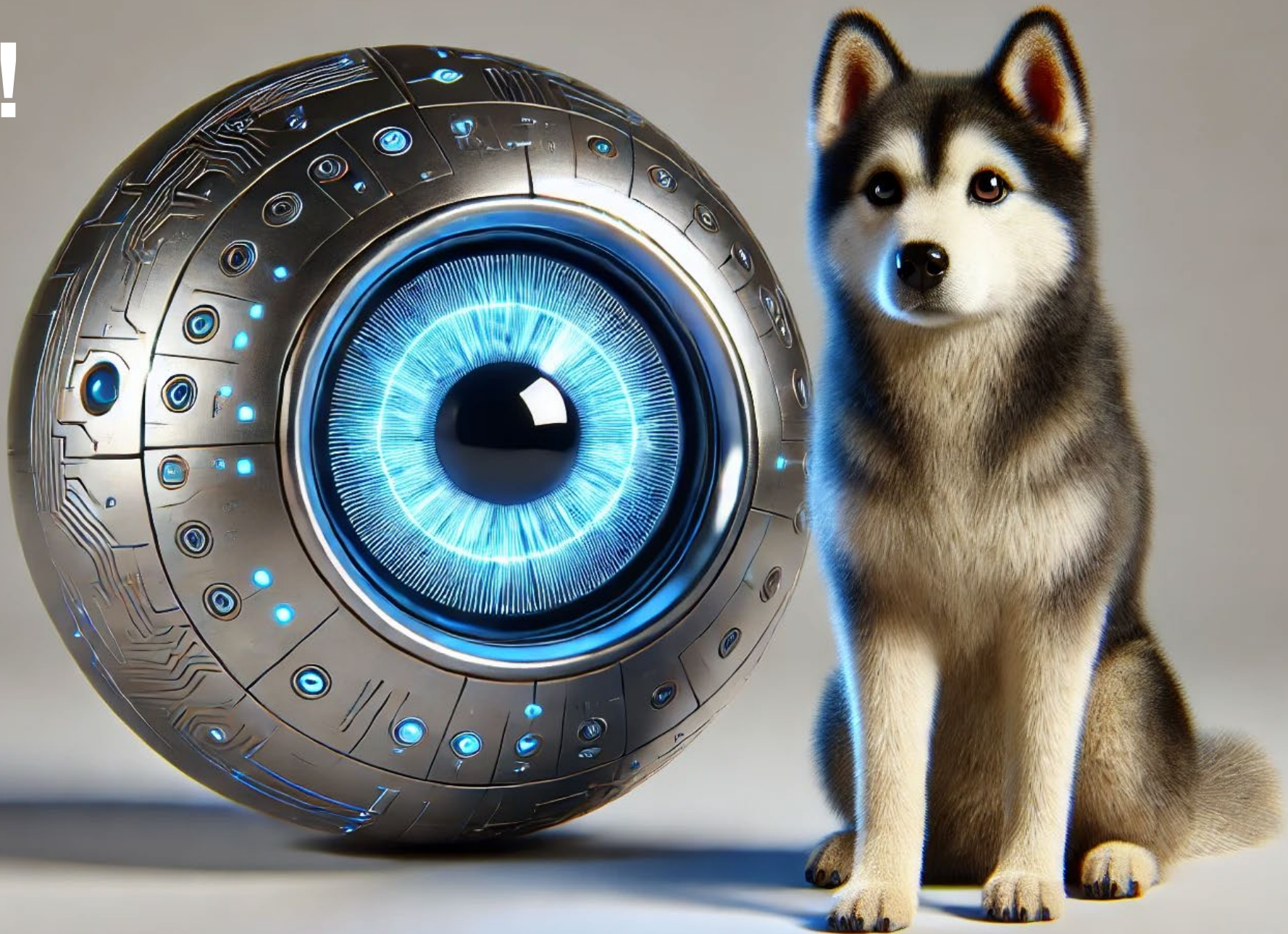
Supervised Learning



Supervised Learning



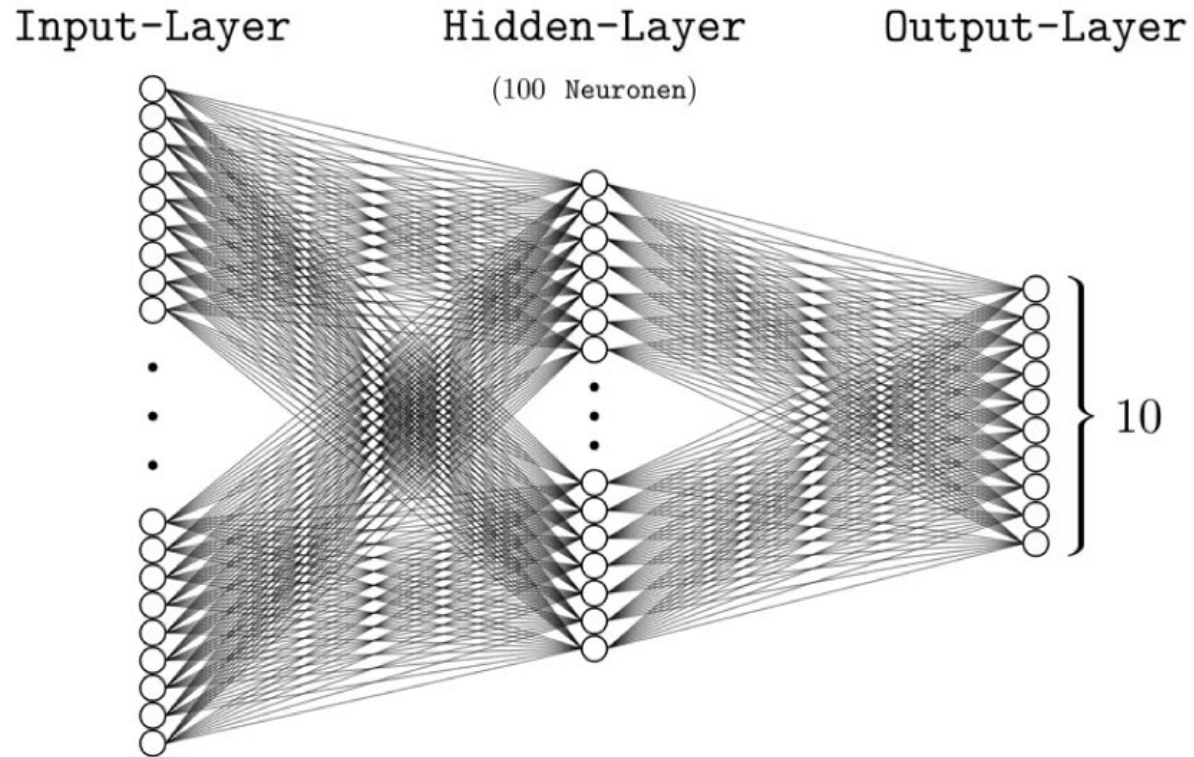
Hund!



Herausforderung

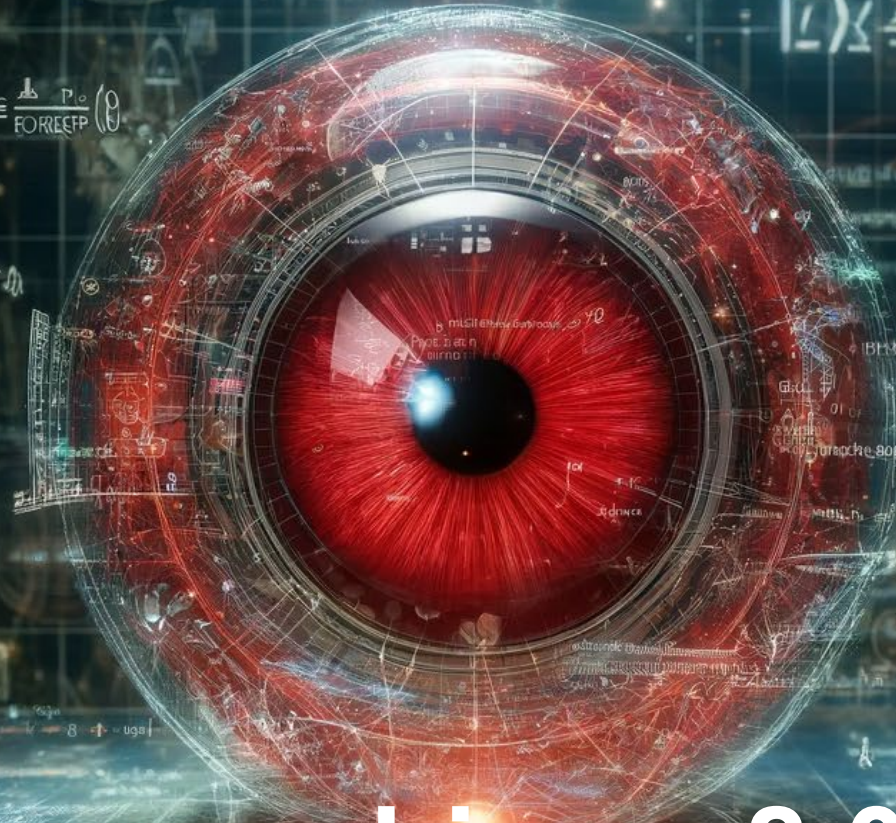
@teenybiscuit





Training

< 100



bis zu 8 000 000 000

Training auch danach oftmals notwendig!



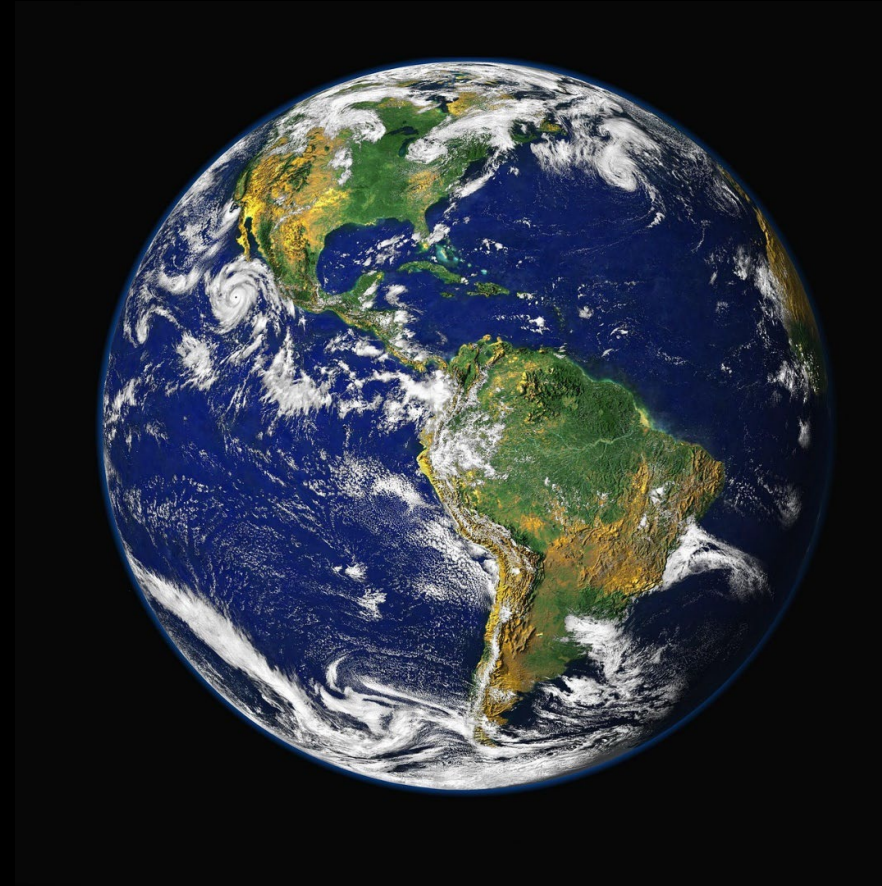
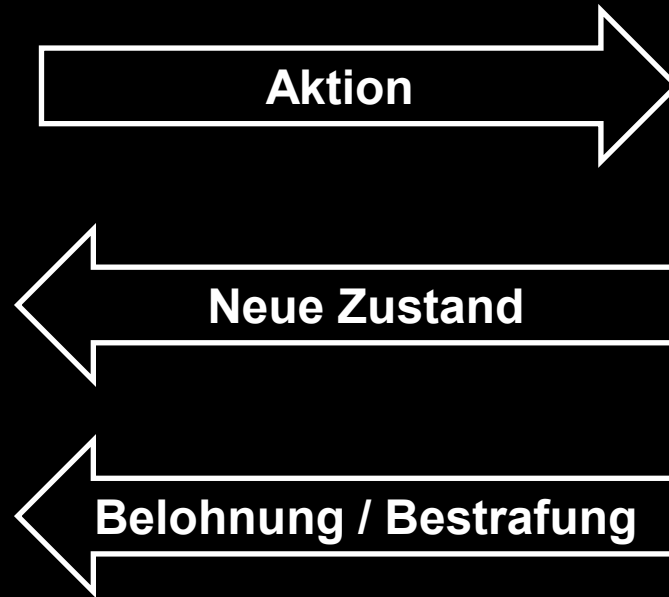
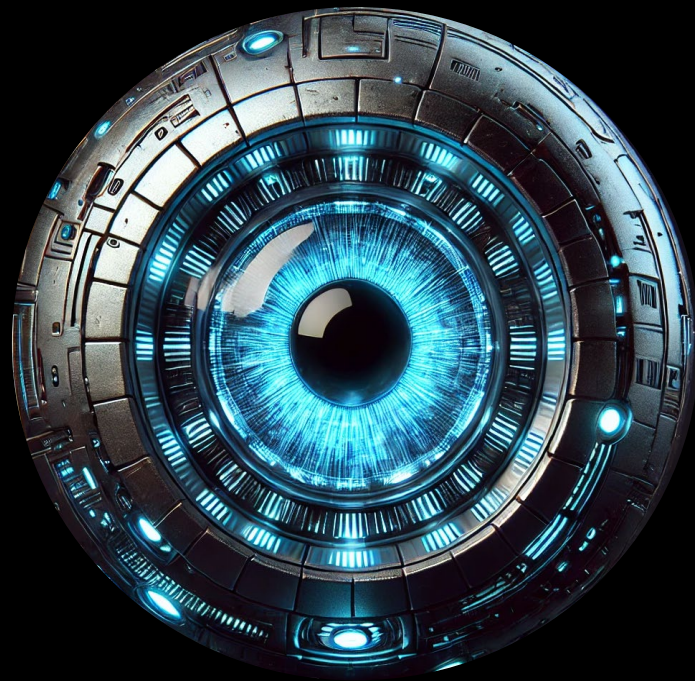


Unsupervised Learning



Unsupervised Learning

Reinforcement Learning



Make It vs Take It





Rechtliche Aspekte





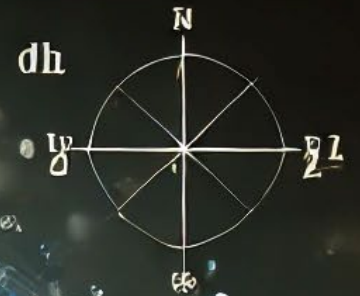
Expertise, Bias und Human in the Loop



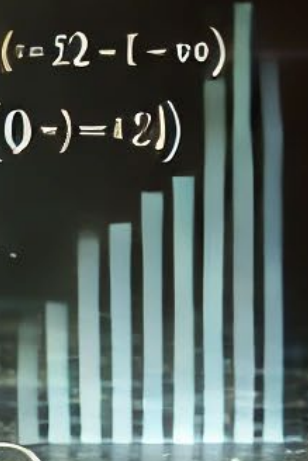
$$\begin{aligned} (1) \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) &= \frac{d}{dt} \left(\frac{1}{2} m \frac{dx}{dt} \frac{dx}{dt} \right) = m v \frac{dv}{dt} \\ &= \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{d}{dt} \left(\frac{1}{2} m \frac{dx}{dt} \frac{dx}{dt} \right) \end{aligned}$$

$$\left(\frac{dx}{dt} \right)$$

$$oh = x \cdot \omega, I$$



$$\begin{aligned} ((r = (r = \sqrt{2} - (-\sqrt{2})) \\ (0 -) = 12)) \end{aligned}$$



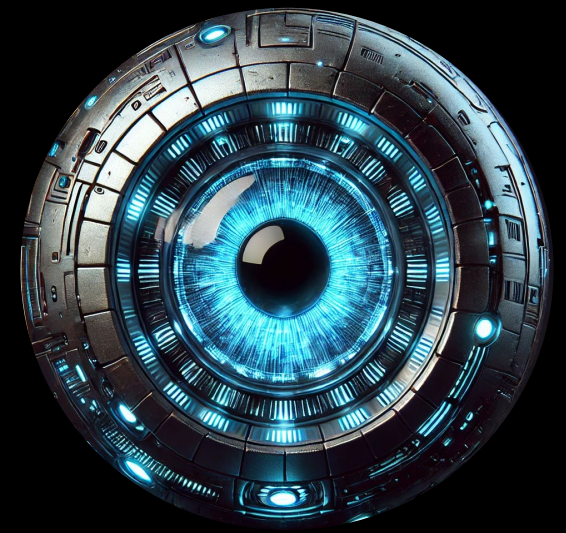
0.2

$$da - h)]$$

$$(odehadoo)$$

Zusammenfassung

**Herzlichen Dank für die
Aufmerksamkeit!**



**„Künstliche Intelligenz ist schlau,
löst Probleme schnell und genau.
Sie lernt ständig und wächst,
Ihr Potential ist ungeahnt und ein
bisschen verhext.“**

ChatGPT

