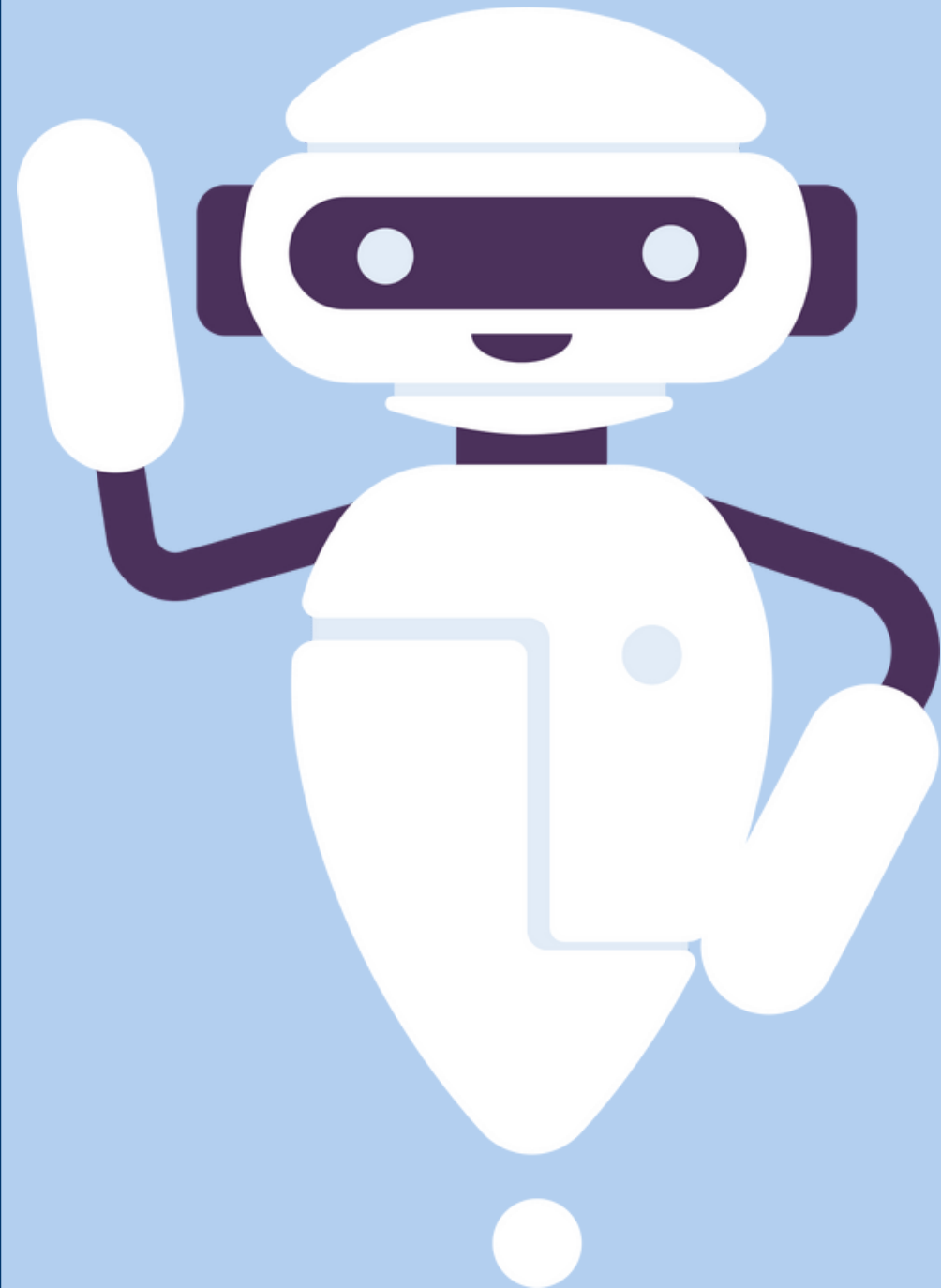


Introduction to Artificial Intelligence

ARTIFICIAL MORAL AGENTS



Core Ideas :

- ✦ What are AMAs?
- ✦ Need for the development of AMAs
- ✦ Design of AMAs
- ✦ Moral agency of AMAs
- ✦ Future projection for AMAs

What are AMAs?

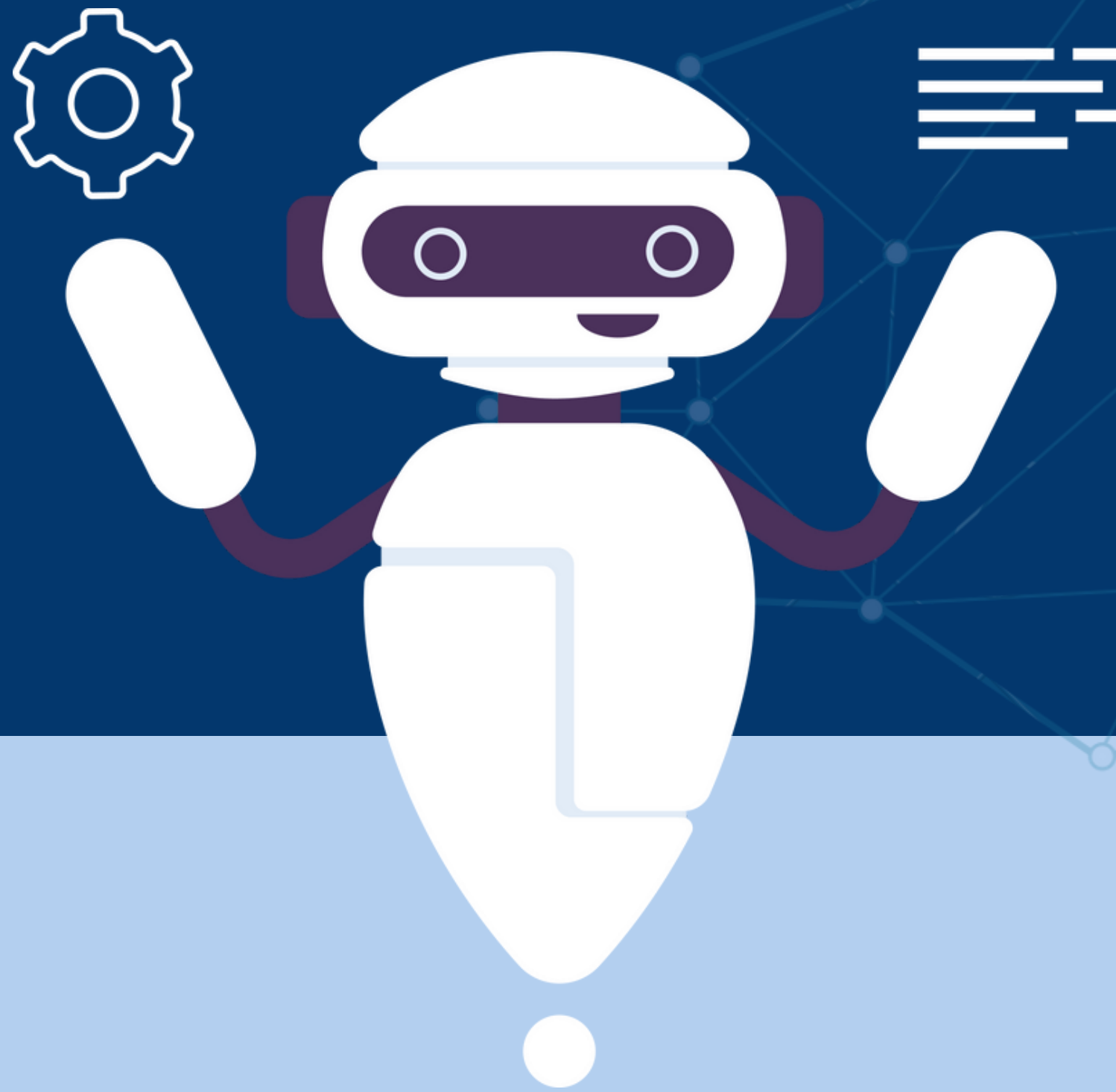
ARTIFICIAL

produced by human beings rather than occurring naturally, especially as a copy of something natural



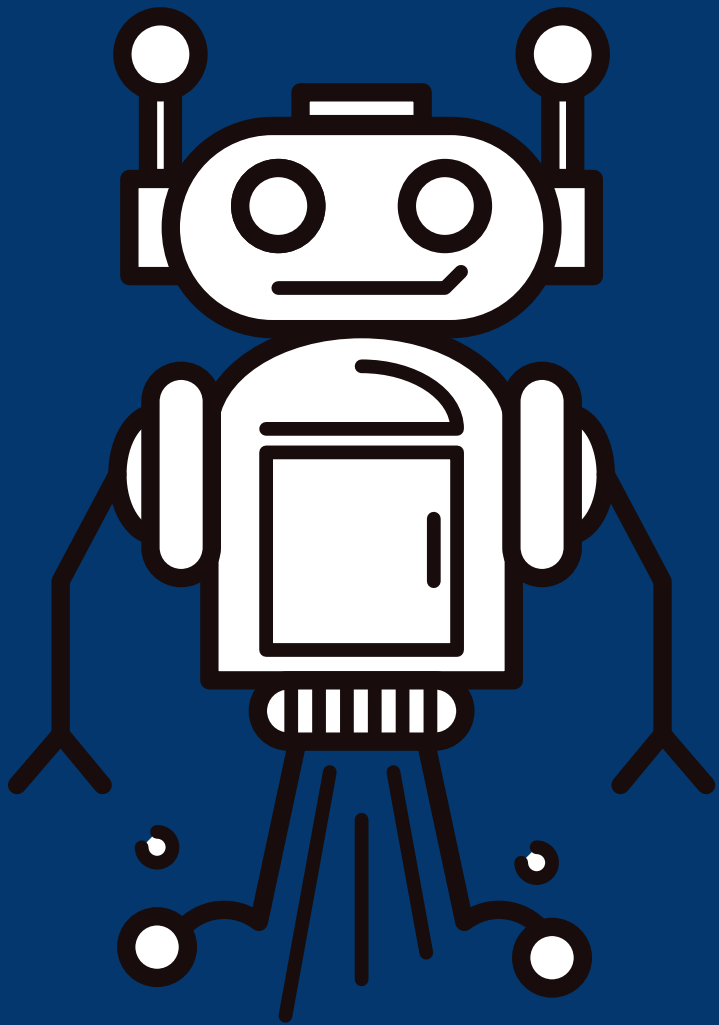
MORAL AGENTS

someone who has the ability to discern right from wrong and to be held accountable for his or her actions



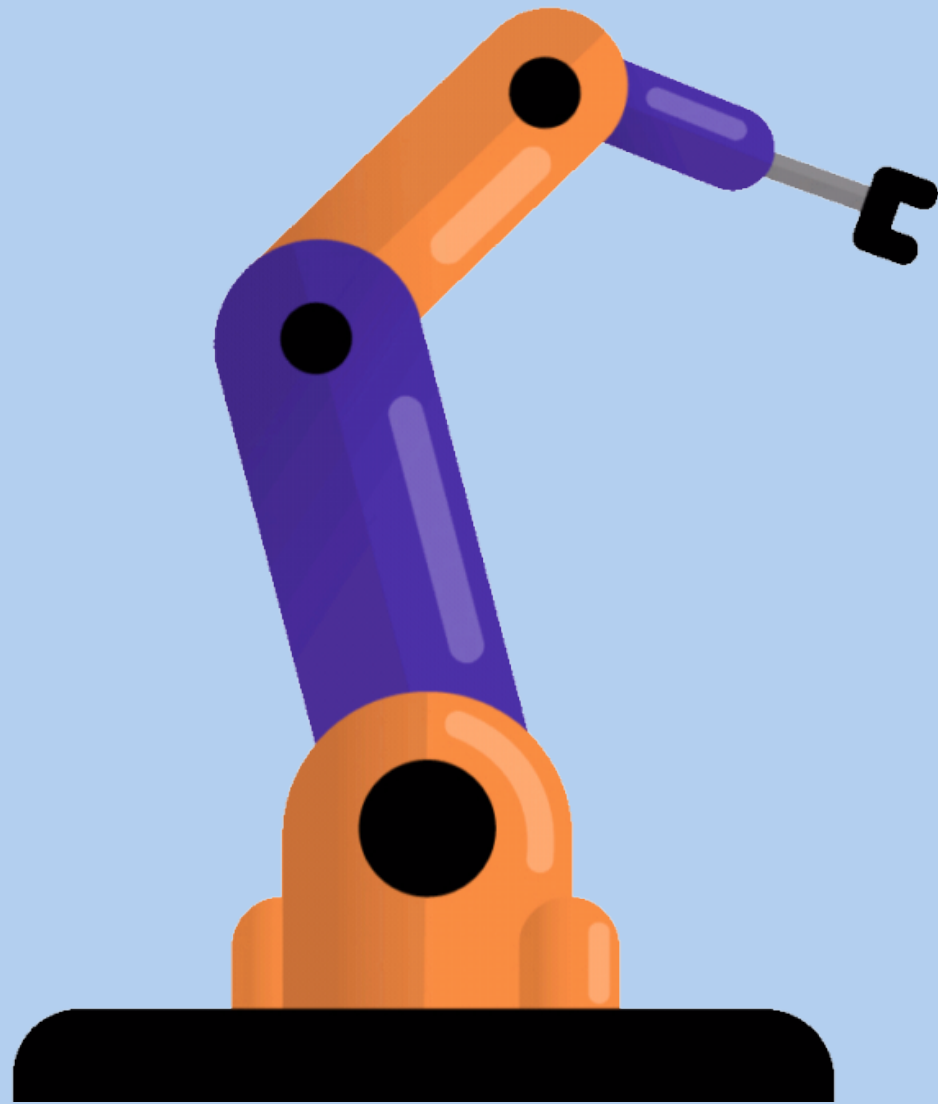
Artificial moral agents are
virtual or physical agents
that are capable of engaging
in moral behavior or at least
of avoiding immoral
behaviour

Need for the development of AMAs



- Adjustable autonomy required to meet AI advances, leads to the need for AMAs
- It aims to implement ethical principles and moral decision making faculties in machines to ensure that their behavior towards human users and other machines is ethically acceptable
- Advance our understanding of morality

Design of AMAs



- Designing an AMA is an ambitious scientific and engineering endeavor but it is still unclear whether morality can be reduced to an algorithm
- A preliminary question regarding the moral behaviors or ethics to be implemented in artificial systems, is whether artificial morality should be modeled after human moral competence

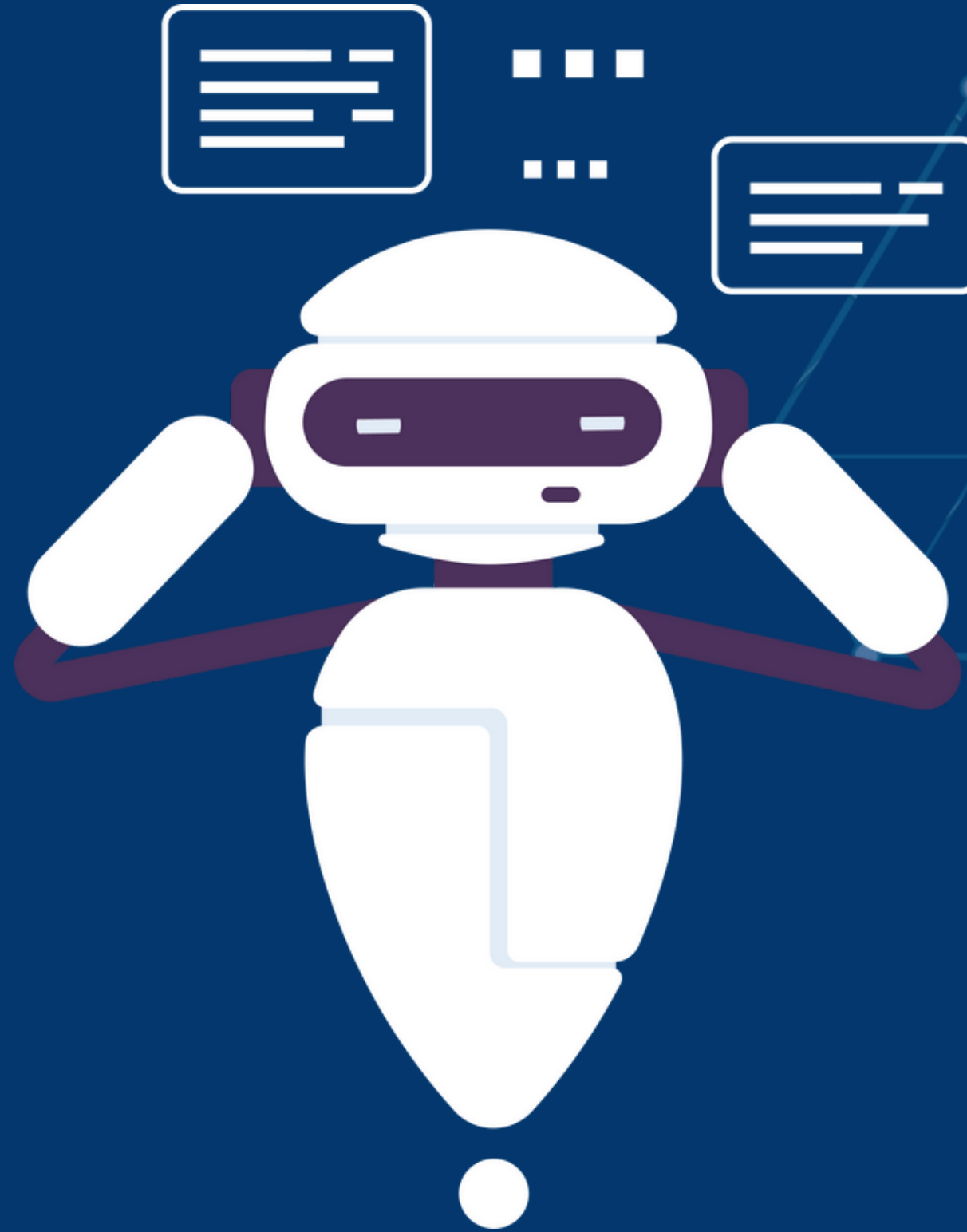
Moral agency of AMAs



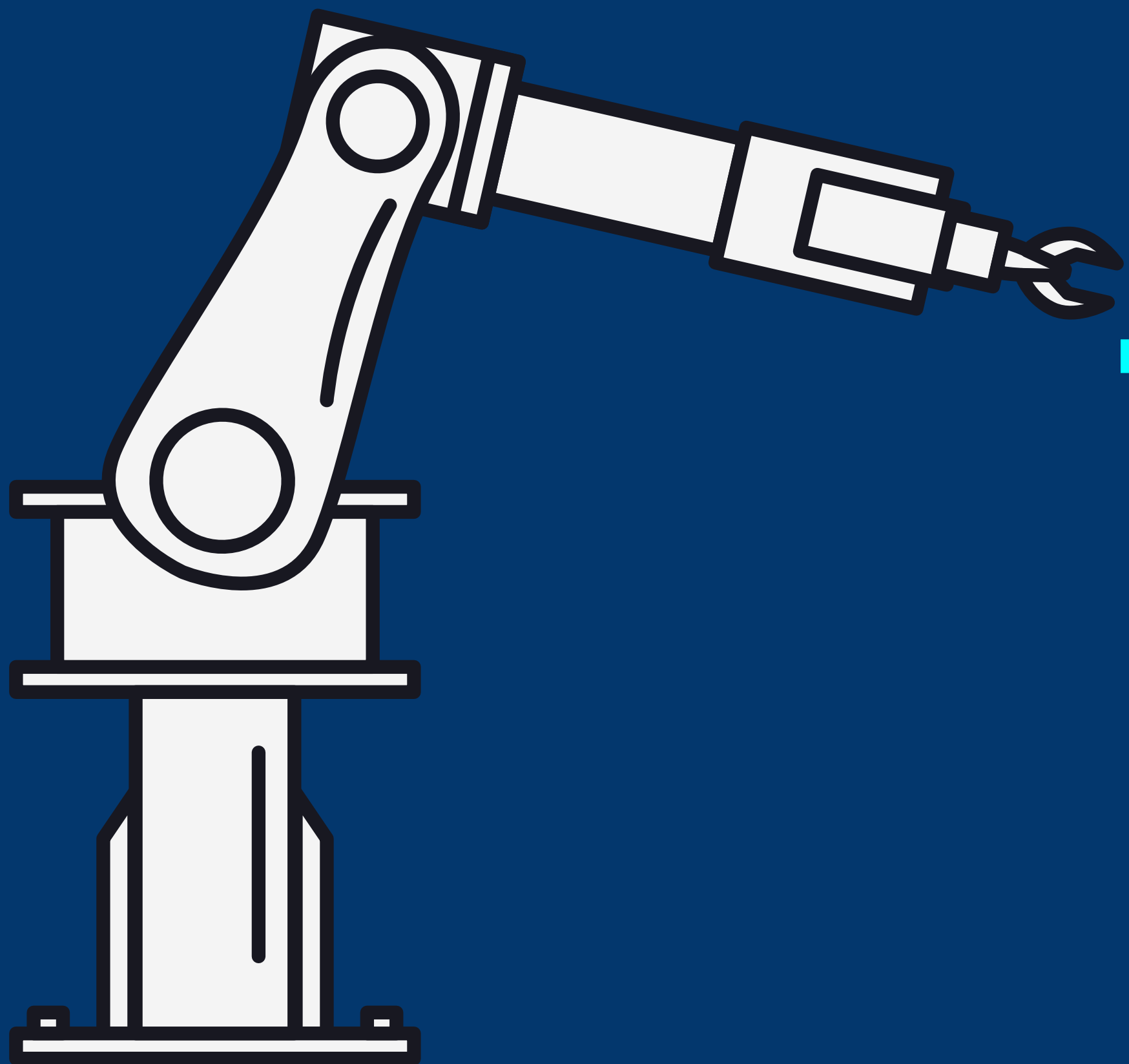
Moral agent

Moral agent is an agent that is morally responsible for its actions, it is attributed certain powers and capacities to be held responsible for exercises of agency

Future projection for AMAs



There are numerous domains for AMA implementation including healthcare, military, and autonomous transportation. There are positive and negative projections about a future with AMAs.



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