Topic:

Approaches and Architectures: Bottom-up vs. Top-down

Structure:

What is Machine Ethics?		(4, 5)
What categories of approaches are there?		(1, 4, 5)
 Comparison: Advantages and Disadvantages 		(1, 4, 5)
Examples:		
Top-down:	LOGIKEY	(2)
o Bottom-up:	CIRL	(3)
	What categories of Comparison: Advantage Examples: o Top-down:	What categories of approaches are there? Comparison: Advantages and Disadvantages

• Discussion (based on the question: What category is best?)

References:

- 1) Wallach, Wendell & Allen, Colin & Smit, Iva. (2008). Machine Morality: Bottom-up and Top-down Approaches for Modeling Human Moral Faculties.
- 2) Benzmüller, Christoph & Parent, Xavier & van der Torre, Leon. (2019). Designing Normative Theories of Ethical Reasoning: Formal Framework, Methodology, and Tool Support.
- 3) Dylan Hadfield-Menell, Anca Dragan, Pieter Abbeel, and Stuart Russell. (2016). Cooperative Inverse Reinforcement Learning.
- 4) A. F. Winfield, K. Michael, J. Pitt and V. Evers. (2019). Machine Ethics: The Design and Governance of Ethical AI and Autonomous Systems [Scanning the Issue].
- 5) https://www.ethicsnet.org/blog/Blog/approaches-to-ai-values